



9



SPORT AND VENUES

- *A stunning natural stage with all venues in the city*
- *World-class, cost efficient and sustainable venues*
- *Pioneering concepts in Sport Presentation*
- *Unique spirit of celebration and passion for sport*
- *Legacy for all Olympic and Paralympic sports*

SPORT AND VENUES

INTRODUCTION

Brazilians and *Cariocas*, the warm and engaging people of Rio de Janeiro, are passionate about sport, embracing major events and making sport a part of their everyday experience. Only the magic of sport could bring such a wide and diverse group together to organize, deliver and celebrate the 2007 Pan American and Parapan American Games - an event that featured a uniquely Brazilian atmosphere of celebration.

Rio is considered Brazil's Olympic sports hub. Supported by its beautiful geographic features and complemented by world-class architecture, Rio will provide an amazing stage for the athletes of the world. With a unique Master Plan that features every venue located in the city, Rio 2016 proposes a cost efficient concept in four zones that promotes economic, environmental and social sustainability. The plan benefits from the substantial use of existing venues and requires the construction of a small number of new permanent venues.

The sport and venues plan has been developed based on the following fundamental principles:

- Prioritizing the experience of athletes as the primary driver for all Games planning and delivery
- Showcasing the city and maximizing the Games' broadcast appeal through the strategic location of sports and venues
- A high level of clustering to concentrate the experience, operational and transport efficiencies within each zone
- Maximizing use of existing venues with only 26% of venues to be built
- Ensuring strong legacies for all Olympic and Paralympic sports and for community and youth recreation
- Aligning the venue Master Plan with a broader agenda of urban transformation across the city
- Optimizing the social impact of sport on the city and its people.

Application of these principles will be evident at Games time through Rio 2016's mission to take every sport to a new level, using innovative venue design and unique concepts in Sport Presentation to connect the spectators to the athletes and enhance the Games experience for both.

The application of a Games theme, inspired by Rio's *Carioca* magic and delivered through the use of music, entertainment and video productions across all sports will ensure that everyone attending an event will not only be a spectator but a participant in the 2016 Olympic and Paralympic Games.

In addition, the individuality of each sport will be both respected and featured, and Rio 2016 will work closely with each International Federation (IF) to pioneer an impressive and engaging experience combining entertainment, interaction and information for spectators, while at the same time honoring and inspiring the athletes. To achieve this new benchmark in presentation, Rio 2016 will provide the budget and expertise for creative concepts and innovative technologies that will be developed in full partnership with each IF.

Rio will provide the most spectacular setting for athletes to perform and engage their audiences - live or broadcast - to celebrate Olympic and Paralympic values in a unique Brazilian style that will entertain and excite viewers worldwide.

9.1 COMPETITION SCHEDULE

IDEAL FOR ATHLETES AND ALL GAMES CLIENTS

The proposed competition schedule has been prepared in close consultation with the IFs. At the same time, it also meets the needs of the media and spectators through the best possible spread of medals across the entire program, with two peaks at the weekends to coincide with prime time for spectators and television viewers.

In designing the schedule, Rio 2016 has adhered to the general principles of past Olympic Games schedules as well as considering local conditions. This will ensure maximum impact for the audience, both in the venues and broadcast, and will enable maximum efficiency in the use of existing and temporary venues.

9.2 VENUES

COMPACT, HIGH QUALITY AND SUSTAINABLE

Sustainable venue Master Plan

Competition venues, all of which meet IF technical requirements and IOC and IPC standards, align with the City Master Plan and legacy strategy. The athlete experience is the other primary criterion, with spectacular world-class venues close to the Olympic and Paralympic Village.

The location of venues in the four zones of Barra, Copacabana, Deodoro and Maracanã distributes legacy facilities throughout the local communities, while the concentration of venues within each zone creates operational efficiencies and enhances the spectator experience.

Most venues are already operational, the majority developed or renovated for the 2007 Pan American Games. The iconic Maracanã Stadium and the four venues hosting football in other cities will all be upgraded to Olympic standards for the 2014 FIFA World Cup. Nine new competition venues will be developed as permanent legacy venues. Each is underpinned by a solid business plan ensuring long-term sustainability for Olympic and Paralympic sport development and community participation.



TABLEAU 9.1 - CALENDRIER DES COMPÉTITIONS

AOÛT	03	04	05	06	07	08	09	10	11	12	13
	Mer Wed	Jeu Thu	Ven Fri	Sam Sat	Dim Sun	Lun Mon	Mar Tue	Mer Wed	Jeu Thu	Ven Fri	Sam Sat
SPORT / DISCIPLINE	-2	-1	0	1 ^o	2 ^o	3 ^o	4 ^o	5 ^o	6 ^o	7 ^o	8 ^o
Cérémonies											
Athlétisme											
Athlétisme										M•W•Q•QF•SF•F(2)	M•W•Q•QF•SF•F(2)
Marathon											
Marche											M•F(1)
Aviron				M•W	M•W	M•W	M•W	M•W	M•W		M•W•F(7)
Badminton				M•W•Q	M•W•Q	M•W•Q	M•W•QF	M•W•QF	M•W•SF•F(1)	M•W•SF•F(1)	M•W•F(1)
Basketball				W•Q	M•Q	W•Q	M•Q	W•Q	M•Q	W•Q	M•Q
Boxe				M	M	M	M	M	M	M	M
Canoë/kayak											
Course en ligne											
Slalom					M•Q	M•SF•F(2)	M•W•Q	M•W•SF•F(2)			
Cyclisme											
BMX											
Piste									F(1)	F(3)	F(1)
Route				M•F(1)	W•F(1)			M•W•F(2)			
VTT											
Sports Équestres											
Concours Complet					M•W•Q	M•W•Q	M•W•Q	M•W•F(2)			
Dressage										M•W•Q	F(1)
Saut d'obstacles											
Escrime				W•F(1)	M•F(1)	W•F(1)	M•F(1)	M•W•SF•F(2)	W•F(1)	M•F(1)	W•F(1)
Football	W•Q	M•Q		W•Q	M•Q		W•Q	M•Q		W•QF	M•QF
Gymnastique											
Artistique				M	W	M (1)	W (1)		M (1)	W (1)	
Rythmique											
Trampoline								M•Q•F(1)			W•Q•F(1)
Haltérophilie				W•F(1)	M•W•F(2)	M•W•F(2)	M•W•F(2)	M•W•F(2)		M•W•F(2)	W•F(1)
Handball				W•Q	M•Q	W•Q	M•Q	W•Q	M•Q	W•Q	M•Q
Hockey					W•Q	M•Q	W•Q	M•Q	W•Q	M•Q	W•Q
Judo				M•W•SF•F(2)	M•W•SF•F(2)	M•W•SF•F(2)	M•W•SF•F(2)	M•W•SF•F(2)	M•W•SF•F(2)	M•W•SF•F(2)	
Lutte											
Libre											
Gréco-romaine										F(2)	F(2)
Sports Aquatiques											
Marathon											
Natation				M•W•Q•SF	M•W•Q•SF•F(4)	M•W•Q•SF•F(4)	M•W•Q•SF•F(5)	M•W•Q•SF•F(4)	M•W•Q•SF•F(5)	M•W•SF•F(5)	M•W•F(5)
Plongeon							Q•SF	F(1)	Q•SF	F(1)	Q•SF
Natation Synchronisée											
Water Polo				M•Q	W•Q	M•Q	W•Q	M•Q	W•Q	M•Q	W•QF
Pentathlon Moderne											
Taekwondo											
Tennis				M•W	M•W	M•W	M•W	M•W	M•W	M•W	M•W•SF
Tennis de table				M•W	M•W	M•W•QF	M•W•Q•SF	M•W•Q•SF•F(1)	M•W•Q•C•F(1)	M•W	M•W
Tir											
Carabine, Pistolet				M•W•Q•F(2)	W•Q•F(1)	M•Q•F(1)	M•Q•F(1)	W•Q•F(1)	W•Q•F(1)	M•Q•F(1)	M•Q•F(1)
Fosse Olympique				M•Q	M•Q•F(1)	W•Q•F(1)	M•Q•F(1)		W•Q•F(1)	M•Q	M•Q•F(1)
Tir à l'arc				M•W•Q	W•F(1)	M•F(1)	W•Q	M•Q	W•F(1)	M•F(1)	
Triathlon							W•F(1)	M•F(1)			
Voile					Q	Q	Q	Q	Q	Q	Q
Volleyball											
Volleyball (Plage)					W•M•Q	W•M•Q	W•M•Q	W•M•Q	W•M•Q	W•M•Q	W•M•Q
Volleyball				W•Q	M•Q	W•Q	M•Q	W•Q	M•Q	W•Q	M•Q
Nombre de médailles d'or				7	13	15	14	21	15	22	25

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TABLE 9.1 - COMPETITION SCHEDULE

14	15	16	17	18	19	20	21	Médailles d'Or / Gold Medals	AUGUST
Dim Sun	Lun Mon	Mar Tue	Mer Wed	Jeu Thu	Ven Fri	Sam Sat	Dim Sun		SPORT / DISCIPLINE
9°	10°	11°	12°	13°	14°	15°	16°		
									Ceremonies
									Athletics
M•W•Q•SF•F(5)	M•W•Q•QF•SF•F(6)	M•W•Q•QF•SF•F(5)	M•W•Q•SF•F(3)	M•W•Q•SF•F(6)	M•W•Q•F(7)	M•W•F(6)		42	Track and Field
W•F(1)							M•F(1)	2	Marathon
			W•F(1)				M•F(1)	3	Race Walk
M•W•F(7)								14	Rowing
M•W•F(2)								5	Badminton
W•Q	M•Q	W•QF	M•QF	W•SF	M•SF	W•F(1)	M•F(1)	2	Basketball
M•QF	M•QF	M•QF	M•QF		M•SF	M•F(5)	M•F(6)	11	Boxing
									Canoe/Kayak
		Q	Q	Q	Q	F(6)	F(6)	12	Flatwater
								4	Slalom
									Cycling
		W•F(1)	M•F(1)					2	BMX
F(2)	F(3)							10	Track
								4	Road
					W•F(1)	M•F(1)		2	Mountain Bike
									Equestrian
								2	Eventing
	W•M•Q		F(1)					2	Dressage
M•W		M•W		M•W•F(1)	M•W•F(1)			2	Jumping
M•F(1)								10	Fencing
	W•SF	M•SF		W•F(1)	M•F(1)			2	Football
									Gymnastics
W•M(5)	W•M(5)					GALA		14	Artistic
	RG Podium	RG Podium	W•Q	F(1)	F(1)			2	Rhythmic
								2	Trampoline
M•F(1)	M•F(1)	M•F(1)						15	Weightlifting
W•Q	M•Q	W•QF	M•QF	W•SF	M•SF	W•F(1)	M•F(1)	2	Handball
M•Q	W•QF	M•QF	W•SF	M•SF	W•F(1)	M•F(1)		2	Hockey
								14	Judo
									Wrestling
		W•F(2)	W•F(2)	M•F(2)	M•F(2)	M•F(3)		11	Freestyle
F(3)								7	Greco-Roman
									Aquatics
	W•F(1)	M•F(1)						2	Marathon Swimming
								32	Swimming
F(1)	Q•SF	F(1)	F(2)	F(2)				8	Diving
	P	P	P		F(1)	F(1)		2	Synchronized Swimming
M•Q	W•SF	M•QF	W•F(1)	M•SF		M•F(1)		2	Water Polo
					W•F(1)	M•F(1)		2	Modern Pentathlon
				M•W•QF•SF•F(2)	M•W•QF•SF•F(2)	M•W•QF•SF•F(2)	M•W•QF•SF•F(2)	8	Taekwondo
F(2)	F(2)							4	Tennis
M•W•QF	M•W•QF•SF•F(1)	M•SF•F(1)						4	Table Tennis
									Shooting
M•Q•F(1)								10	Rifle and Pistol
								5	Trap
								4	Archery
								2	Triathlon
F(2)	F(1)	F(2)	F(2)	F(2)	F(2)			11	Sailing
									Volleyball
W•QF	M•QF	W•SF	M•SF	W•F(1)	M•F(1)			2	Beach
W•Q	M•Q	W•QF	M•QF	W•SF	M•SF	W•F(1)	M•F(1)	2	Indoor
33	20	14	13	18	21	31	18		Total gold medals

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The most significant legacy project from the bid is the Olympic Training Center (OTC) program and facilities with its headquarters in Barra, next to the Olympic and Paralympic Village. The OTC will include two venues already existing from the 2007 Pan American Games as well as other facilities built in preparation for the 2016 Games. Through a high performance athlete development program incorporating the training programs of Brazil's National Federations, the facilities of the OTC will be used extensively to enhance the preparation of Brazilian and other teams prior to 2012 and 2016. These facilities will be used as competition and training venues during the 2016 Games, and then will revert to training facilities post-Games. The long term operations of the OTC are secured through the generation of revenues from the adjacent mixed use commercial development which, during the Games, will be the site for the IBC/MPC and a Games hotel.

A further noteworthy legacy will be the X Park in Deodoro hosting venues for Cycling (BMX), Cycling (Mountain Bike) and Canoe/Kayak (Slalom). Post-Games, it will become a center for extreme sports, ideally located in one of the most populous and youthful areas of Rio. In legacy mode the X Park venues will fall under the OTC umbrella of facilities, providing training opportunities in the same sports as for the Games with opportunities to extend to other adventure sports.

The remaining seven competition venues, including the outdoor venues in the Copacabana Zone, will be developed as high quality temporary installations.

Finally, many sports that have traditionally been geographically isolated, such as Canoe/Kayak, Rowing and Sailing, will be staged in dramatic locations in the central city in the heart of the entertainment districts, adding to their exposure and allowing their athletes and officials to enjoy the same celebration of sport as those in all the other sports.

High quality venues

The venues constructed for the 2007 Pan American and Parapan American Games were designed using international standards for accessibility, sustainability and technical specification for major events. Many were also designed to accommodate the necessary modifications for the Olympic and Paralympic Games. For all planned and additional venues, a comprehensive process is being undertaken to ensure the same high standards are met.

Sport in the streets

Gross venue capacities meet all IOC requirements and, in some cases, have been increased due to the popularity of certain sports in Brazil. Road events such as Athletics (Race Walk), Cycling (Road) and Triathlon will pass through the beaches and parks of Copacabana Zone with significant crowds lining the routes. The Marathon will follow a route past many of Rio's iconic landscape features, providing an opportunity for thousands of local citizens to engage in the celebration of this famous event. Other open venues, such as Canoe/Kayak, Rowing and Sailing, will attract large crowds in addition to the seated capacities. Live Sites will be strategically located near these venues, as well as throughout the country, to ensure the broader participation of communities and an enhanced experience for spectators.

As part of Rio's full stadiums program, planning will be undertaken to ensure that both reserved and ticketed seating sections will be adjusted as competitions evolve from preliminary rounds through to finals.



Compact training venues

Rio 2016 proposes a compact training venue strategy, using competition venues and a further 29 training venues: a combination of stand-alone and multi-purpose venues, plus a number of facilities in sports clubs, schools and universities (see Table 9.5B). Of key significance is a primary multi-purpose training center (Olympic Village Training Center) constructed adjacent to the Olympic and Paralympic Village with facilities for eleven Olympic and eight Paralympic sports.

An additional multi-purpose training center, the Juliano Moreira Sports Complex, is situated along the main corridor leading to Rio Olympic Park Precinct, 15 minutes from the Olympic and Paralympic Village. This training center will be developed pre-Games as a school and community venue and will provide much needed facilities both to the local community and the region.

A major benefit of the Rio 2016 plan is the full availability of João Havelange Stadium for Athletics (Track and Field) training leading up to and during the Games, as no other events will be held in this venue.

Ready for additional sports

Rio 2016 recognizes the possibility of new sports being added to the Olympic Program and, following detailed analysis for each of the potential sports, confirms its capability to accommodate any of them with respect to competition venues, training venues, transport and other operational or logistical aspects.

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TABLE 9.2 - VENUES

SPORT/DISCIPLINE/EVENT	Competition venues			Training venues
	Venue number	Venue name	Gross seating capacity	Venue name
Athletics (Marathon)	1	Sambódromo	30,000	-
	2	-	-	Olympic Village Training Center
Athletics (Race Walk)	3	Flamengo Park	5,000	-
	2	-	-	Olympic Village Training Center
Athletics (Track and Field)	4	João Havelange Stadium	60,000	João Havelange Stadium
	5	-	-	OTC Track and Field
	6	-	-	Federal University of Rio de Janeiro
	2	-	-	Olympic Village Training Center
	7	-	-	Air Force University
Rowing	8	Lagoa Rodrigo de Freitas	14,000	Lagoa Rodrigo de Freitas
Badminton	9	Riocentro - Pavilion 4	6,500	Riocentro - Pavilion 4
	10	OTC - Hall 1	16,000	OTC - Hall 1
Basketball	2	-	-	Olympic Village Training Center
	11	-	-	Juliano Moreira Sports Complex
	6	-	-	Federal University of Rio de Janeiro
Boxing	12	Riocentro - Pavilion 2	9,000	Riocentro - Pavilion 2
Canoe/Kayak (Flatwater)	8	Lagoa Rodrigo de Freitas	14,000	Lagoa Rodrigo de Freitas
Canoe/Kayak (Slalom)	13	Olympic Whitewater Stadium	8,000	Olympic Whitewater Stadium
Cycling (BMX)	14	Olympic BMX Center	7,500	Olympic BMX Center
Cycling (Mountain Bike)	15	Olympic Mountain Bike Park	5,000	Olympic Mountain Bike Park
Cycling (Road)	3	Flamengo Park	5,000	-
	16	-	-	Army Assessment Center
Cycling (Track)	17	Rio Olympic Velodrome	5,000	Rio Olympic Velodrome
Equestrian	18	National Equestrian Center	14,000	National Equestrian Center
Fencing	19	Deodoro Arena	5,000	Deodoro Arena
	20	Maracanã Stadium	90,000	-
Football	21	-	-	Zico Football Club
	22	-	-	Vasco Barra Football Club
	11	-	-	Juliano Moreira Sports Complex
Football	23	Mané Garrincha Stadium (Brasília)	76,000	-
	24	-	-	Cave Stadium
	25	-	-	Minas Brasília Tennis Club
	26	-	-	Yacht Club of Brasília
	27	-	-	Cruzeiro Stadium
Football	28	Mineirão Stadium (Belo Horizonte)	74,000	-
	29	-	-	Toca da Raposa 1
	30	-	-	Toca da Raposa 2
	31	-	-	C. Atlético Mineiro Training Center
	32	-	-	América F.C. Training Center
Football	33	Fonte Nova Stadium (Salvador)	60,000	-
	34	-	-	Santiago Park Stadium
	35	-	-	Pituaçu Stadium
	36	-	-	Barradão Stadium
	37	-	-	E.C. Bahia
Football	38	Morumbi Stadium (São Paulo)	66,000	-
	39	-	-	São Paulo F.C. Training Center
	40	-	-	S.E. Palmeiras Training Center
	41	-	-	C.A. Juventus Stadium
	42	-	-	Nacional A.C. Stadium
Gymnastics	43	Rio Olympic Arena	12,000	Rio Olympic Arena
Weightlifting	2	-	-	Olympic Village Training Center
	44	Riocentro - Pavilion 6	6,500	Riocentro - Pavilion 6
	45	OTC - Hall 4	12,000	OTC - Hall 4
Handball	6	-	-	Federal University of Rio de Janeiro
	2	-	-	Olympic Village Training Center
	11	-	-	Juliano Moreira Sports Complex

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TABLE 9.2 - VENUES

CONTINUED

SPORT/DISCIPLINE/EVENT	Competition venues			Training venues
	Venue number	Venue name	Gross seating capacity	Venue name
Hockey	46	Olympic Hockey Center	10,000 (Main Pitch) 5,000 (Second Pitch)	Olympic Hockey Center
	47	-	-	Deodoro Hockey Center
Judo	48	OTC - Hall 2	10,000	OTC - Hall 2
	2	-	-	Olympic Village Training Center
Wrestling	49	OTC - Hall 3	10,000	OTC - Hall 3
	2	-	-	Olympic Village Training Center
Aquatics (Diving)	50	Maria Lenk Aquatic Center	6,500	Maria Lenk Aquatic Center
	51	-	-	Almirante Adalberto Nunes Physical Education Center
Aquatics (Swimming)	52	Olympic Aquatics Stadium	18,000	Olympic Aquatics Stadium
	2	-	-	Olympic Village Training Center
Aquatics (Marathon Swimming)	53	Fort Copacabana	5,000	-
	2	-	-	Olympic Village Training Center
Aquatics (Synchronized Swimming)	52	Olympic Aquatics Stadium	18,000	Olympic Aquatics Stadium
	6	-	-	Federal University of Rio de Janeiro
Aquatics (Water Polo)	54	-	-	Deodoro Modern Pentathlon Park
	50	Maria Lenk Aquatic Center	6,500	Maria Lenk Aquatic Center
Modern Pentathlon	51	-	-	Almirante Adalberto Nunes Physical Education Center
	54	Deodoro Modern Pentathlon Park	15,000	Deodoro Modern Pentathlon Park
Taekwondo	19	Deodoro Arena	5,000	Deodoro Arena
	2	-	-	Olympic Village Training Center
Tennis	48	OTC - Hall 2	10,000	OTC - Hall 2
	2	-	-	Olympic Village Training Center
Table Tennis	55	Olympic Tennis Center	10,000 (Center Court) 5,000 (Show Court 1) 3,000 (Show Court 2) 250 (Match Courts)	Olympic Tennis Center
	56	Riocentro - Pavilion 3	5,000 (Center Court) 2,000 (Preliminaries)	Riocentro - Pavilion 3
Shooting	57	National Shooting Center	1,000 (Trap and Skeet Prelims.) 2,000 (Trap and Skeet Finals) 1,600 (Finals Hall) 1,000 (10m Range) 750 (50m Range) 500 (25m Range)	National Shooting Center
	1	Sambódromo	6,000	Sambódromo
Archery	53	Fort Copacabana	5,000	-
	2	-	-	Olympic Village Training Center
Triathlon	16	-	-	Army Assessment Center
	58	Marina da Glória	10,000	Marina da Glória
Volleyball (Beach)	59	Copacabana Stadium	12,000	Copacabana Stadium
	60	Maracanãzinho Arena	12,000	Maracanãzinho Arena
Volleyball	2	-	-	Olympic Village Training Center
	11	-	-	Juliano Moreira Sports Complex
	61	-	-	Sergio Buarque de Holanda Municipal School
	62	-	-	Carlos Caetano Miragaya Municipal School
	63	-	-	Silveira Sampaio Municipal School
Total number of competition venues: 34			Total number of additional training venues: 29	

■ EXISTING, no permanent works required

■ EXISTING, permanent works required

■ PLANNED

■ ADDITIONAL (Permanent or Temporary)

9.3 VENUE LOCATIONS

INTEGRATED GAMES MASTER PLAN





The Rio 2016 Master Plan is based on four zones across the city (Barra, Copacabana, Deodoro, Maracanã). The heart of the Games will be Barra, home to 14 Olympic and 13 Paralympic sports as well as the Olympic and Paralympic Village, the IBC/MPC and Barra Media Village.

A high performance, direct and dedicated transport ring will connect all four zones through a combination of existing high capacity rail and metro and a new Bus Rapid Transit (BRT) system for spectators, and an Olympic Lane network for accredited personnel. This will ensure that movement between each of the four zones can be achieved efficiently and with minimized travel times.

SITES DE COMPÉTITION ET D'ENTRAÎNEMENT | COMPETITION AND TRAINING VENUES

 1 Sambódromo Sambódromo	 43 Arène Olympique de Rio Rio Olympic Arena	 19 Arène de Deodoro Deodoro Arena (T)
3 Parc de Flamengo Flamengo Park	 2 Centre d'Entraînement du Village Olympique Olympic Village Training Center	54 Parc de Pentathlon Moderne de Deodoro Deodoro Modern Pentathlon Park (T)
4 Stade João Havelange João Havelange Stadium		2 Centre d'Entraînement du Village Olympique Olympic Village Training Center
2 Centre d'Entraînement du Village Olympique Olympic Village Training Center	 44 Riocentro - Pavillon 6 Riocentro - Pavilion 6 (T)	 48 CEO - Salle 2 OTC - Hall 2
5 CEO Athlétisme OTC Track and Field	 45 CEO - Salle 4 OTC - Hall 4	2 Centre d'Entraînement du Village Olympique Olympic Village Training Center
6 Université Fédérale de Rio de Janeiro Federal University of Rio de Janeiro	2 Centre d'Entraînement du Village Olympique Olympic Village Training Center	 55 Centre Olympique de Tennis Olympic Tennis Center (T)
7 Université de l'Armée de l'Air Air Force University	6 Université Fédérale de Rio de Janeiro Federal University of Rio de Janeiro	 56 Riocentro - Pavillon 3 Riocentro - Pavilion 3 (T)
8 Lagoa Rodrigo de Freitas Lagoa Rodrigo de Freitas (T)	11 Complexe Sportif Juliano Moreira Juliano Moreira Sports Complex	 57 Centre National de Tir National Shooting Center (T)
9 Riocentro - Pavillon 4 Riocentro - Pavilion 4 (T)	 46 Centre Olympique de Hockey Olympic Hockey Center	 1 Sambódromo Sambódromo (T)
10 CEO - Salle 1 OTC - Hall 1	47 Centre de Hockey de Deodoro Deodoro Hockey Center	 53 Fort de Copacabana Fort Copacabana
2 Centre d'Entraînement du Village Olympique Olympic Village Training Center	 48 CEO - Salle 2 OTC - Hall 2	2 Centre d'Entraînement du Village Olympique Olympic Village Training Center
6 Université Fédérale de Rio de Janeiro Federal University of Rio de Janeiro	2 Centre d'Entraînement du Village Olympique Olympic Village Training Center	16 Centre d'Évaluation de l'Armée Army Assessment Center
11 Complexe Sportif Juliano Moreira Juliano Moreira Sports Complex	 49 CEO - Salle 3 OTC - Hall 3	 58 Marina da Glória Marina da Glória (T)
12 Riocentro - Pavillon 2 Riocentro - Pavilion 2 (T)	2 Centre d'Entraînement du Village Olympique Olympic Village Training Center	 59 Stade de Copacabana Copacabana Stadium (T)
8 Lagoa Rodrigo de Freitas Lagoa Rodrigo de Freitas (T)	 50 Centre Aquatique Maria Lenk Maria Lenk Aquatic Center (T)	 60 Arène Maracanãzinho Maracanãzinho Arena
13 Stade Olympique des Eaux Vives Olympic Whitewater Stadium (T)	51 Centre d'Éducation Physique Almirante Adalberto Nunes Almirante Adalberto Nunes Physical Education Center	2 Centre d'Entraînement du Village Olympique Olympic Village Training Center
3 Parc de Flamengo Flamengo Park	52 Stade Aquatique Olympique Olympic Aquatic Stadium (T)	11 Complexe Sportif Juliano Moreira Juliano Moreira Sports Complex
14 Centre Olympique de BMX Olympic BMX Center (T)	53 Fort de Copacabana Fort Copacabana	61 École Municipale Sergio Buarque de Holanda Sergio Buarque de Holanda Municipal School
15 Parc Olympique de VTT Olympic Mountain Bike Park (T)	2 Centre d'Entraînement du Village Olympique Olympic Village Training Center	62 École Municipale Carlos Caetano Miragaya Carlos Caetano Miragaya Municipal School
17 Vélodrome Olympique de Rio Rio Olympic Velodrome (T)	 52 Stade Aquatique Olympique Olympic Aquatic Stadium (T)	63 École Municipale Silveira Sampaio Silveira Sampaio Municipal School
16 Centre d'Évaluation de l'Armée Army Assessment Center	6 Université Fédérale de Rio de Janeiro Federal University of Rio de Janeiro	
18 Centre National Équestre National Equestrian Center (T)	54 Parc de Pentathlon Moderne de Deodoro Deodoro Modern Pentathlon Park	
19 Arène de Deodoro Deodoro Arena (T)	 50 Centre Aquatique Maria Lenk Maria Lenk Aquatic Center (T)	
20 Stade Maracanã Maracanã Stadium	51 Centre d'Éducation Physique Almirante Adalberto Nunes Almirante Adalberto Nunes Physical Education Center	
11 Complexe Sportif Juliano Moreira Juliano Moreira Sports Complex		
21 Club de Football Zico Zico Football Club		
22 Club de Football Vasco Barra Vasco Barra Football Club		

CODES DE COULEURS | COLOR CODE

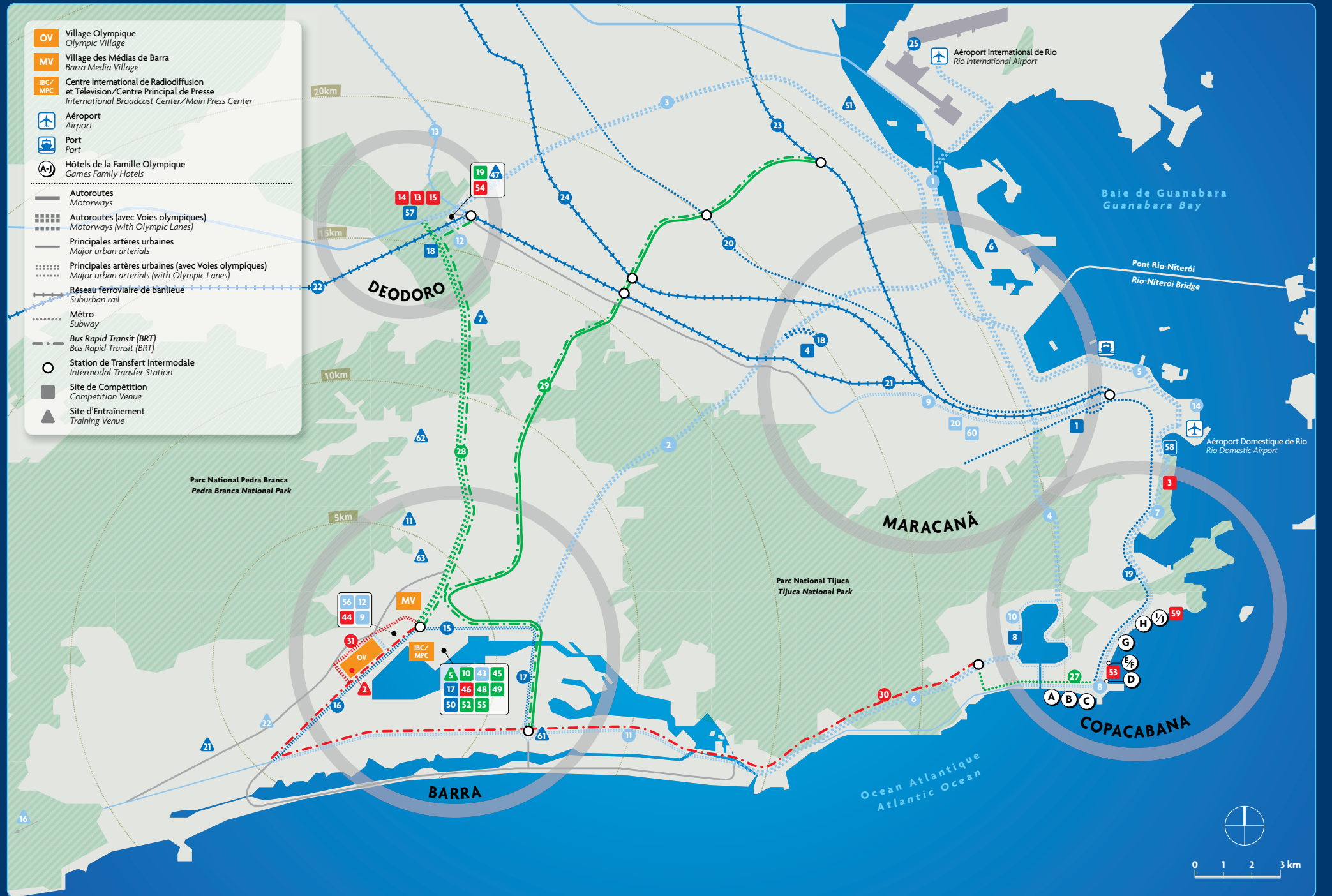
-  EXISTANT, pas de constructions permanentes nécessaires
EXISTING, no permanent works required
-  EXISTANT, constructions permanentes nécessaires
EXISTING, permanent works required
-  PRÉVU
PLANNED
-  SUPPLÉMENTAIRE (Permanent ou Temporaire)
ADDITIONAL (Permanent or Temporary)

SPORT AND VENUES

INFRASTRUCTURE DES TRANSPORTS | TRANSPORT INFRASTRUCTURE

- 1 Autoroute – Voie Presidente João Goulart – Ligne Rouge
Motorway – Via Presidente João Goulart – Red Line
- 2 Autoroute – Avenue Governador Carlos Lacerda – Ligne Jaune
Motorway – Avenue Governador Carlos Lacerda – Yellow Line
- 3 Autoroute – Avenue Brasil
Motorway – Avenue Brasil
- 4 Autoroute – Tunnel Rebouças/Voie Élevée Fressynet
Motorway – Rebouças Tunnel/Fressynet Elevated Way
- 5 Autoroute – Voie Élevée Périphérique
Motorway – Perimetral Elevated Way
- 6 Autoroute – Voie Rapide Barra – Zone Sud
Motorway – Barra-South Zone Expressway
- 7 Autoroute – Aterro/Avenue Flamengo
Motorway – Aterro/Avenue Flamengo
- 8 Artère Urbaine – Avenues des Plages de la Zone Sud
Major Urban Arterial – South Zone Beach Avenues
- 9 Artère Urbaine – Avenue Presidente Vargas/Radiale Ouest
Major Urban Arterial – Avenue Presidente Vargas/Radial Oeste
- 10 Artère Urbaine – Avenue Borges de Medeiros/Epitácio Pessoa
Major Urban Arterial – Avenue Borges de Medeiros/Epitácio Pessoa
- 11 Artère Urbaine – Avenue das Américas
Major Urban Arterial – Avenue das Américas
- 12 Artère Urbaine – Avenue Duque de Caxias
Major Urban Arterial – Avenue Duque de Caxias
- 13 Réseau Ferroviaire de Banlieue – Ligne Japeri
Suburban Rail – Japeri Line
- 14 Aéroport Domestique de Rio
Rio Domestic Airport
- 15 Artère Urbaine – Avenue Aberlardo Bueno
Major Urban Arterial – Avenue Abelardo Bueno
- 16 Artère Urbaine – Avenue Salvador Allende
Major Urban Arterial – Avenue Salvador Allende
- 17 Artère Urbaine – Avenue Ayrton Senna
Major Urban Arterial – Avenue Ayrton Senna
- 18 Artère Urbaine – Liaisons au Stade Olympique
Major Urban Arterial – Olympic Stadium Links
- 19 Métro – Métro Ligne 1
Subway – Metro Line 1
- 20 Métro – Métro Ligne 2
Subway – Metro Line 2
- 21 Réseau Ferroviaire de Banlieue – Ligne Deodoro
Suburban Rail – Deodoro Line
- 22 Réseau Ferroviaire de Banlieue – Ligne Santa Cruz
Suburban Rail – Santa Cruz Line
- 23 Réseau Ferroviaire de Banlieue – Ligne Sacacuruna
Suburban Rail – Sacacuruna Line
- 24 Réseau Ferroviaire de Banlieue – Ligne Belford Roxo
Suburban Rail – Belford Roxo Line
- 25 Aéroport International de Rio
Rio International Airport
- 27 Métro – Métro Ligne 1 (extension)
Subway – Metro Line 1 (extension)
- 28 BRT – Autoroute – Liaison C
BRT – Motorway – Link C
- 29 BRT – Artère Urbaine – Couloir T5
BRT – Major Urban Arterial – T5 Corridor
- 30 BRT – Autoroute – Barra-Zone Sud
BRT – Motorway – Barra-South Zone
- 31 Artère Urbaine – Voie 5
Major Urban Arterial – Via 5





SPORT AND VENUES

9.4 VENUE WORKS

LIMITED AND EFFICIENT VENUE CONSTRUCTION

Established pricing benchmarks

The pricing for both permanent and temporary venue works has been undertaken by experienced international and local experts. The Rio 2007 Pan American Games provided valuable benchmarks for future developments which have been studied relative to planned and additional venues. For temporary venues, the pricing approach uses international rates and standards, balanced with the appropriate use of local market resources to ensure implementation with the required quantity and quality.

Existing venues: no permanent works required - 10 (29%)

Most venues constructed for the 2007 Pan American and Parapan American Games were designed in accordance with Olympic and Paralympic requirements. In these cases, and where there is no additional legacy requirement, only temporary adaptations will be made and the venue returned to its original state post-Games.

Existing venues: permanent works required - 8 (24%)

Where significant modifications are required to existing venues and there is a defined legacy, these works will be undertaken permanently. An example is João Havelange Stadium, where the expanded seating capacity of 60,000, a venue evolution identified as part of the initial design, will be a positive legacy.

New permanent venues - 9 (26%)

A small number of venues will be built as new permanent structures. These will include the Olympic Training Center facilities in Barra which will be built irrespective of the bid and the X Park in Deodoro. These developments are important legacy projects which will add to the sporting infrastructure of the city.

Totally temporary - 7 (21%)

Where there is no legacy need, venues will be developed as totally temporary. These will include many of the outdoor and road events, including Cycling (Road), Triathlon and Volleyball (Beach), which will all be held in the Copacabana Zone.

Guaranteed funding

The financing of all venues has been guaranteed by the relevant level of Government (City, State or Federal) depending on the ownership.

Refer to Section 9 of the Guarantees File.

Timely delivery

Construction timelines have been developed based on previous experience in the Brazilian construction industry and the direct experience from the Rio 2007 Pan American Games to ensure compliance with the following principles:

- All permanent venues will be completed a minimum of one year before the Games for test events, with adequate contingencies
- For temporary Games venues, all elements essential for testing will be constructed for test event purposes
- Key legacy projects related to the OTC will be completed to assist with the training of the Brazilian and other teams for the 2012 and 2016 Games. The schedule includes early development of the Olympic Village Training Center to allow relocation of some training activities from the OTC while its Olympic adaptation is underway in 2015-16
- Adequate implementation time for overlay and any other temporary infrastructure.

TABLE 9.4 - URBAN DOMAINS AND COMMON DOMAINS

ZONE	Site	Description	Permanent Cost USD 2008 (000)	Temporary Cost USD 2008 (000)
Deodoro	Urban Domain	Public plaza, pedestrian links between venues, general upgrade of urban areas	25,967	-
	X Park Precinct Common Domain	Public spaces, Games overlay (spectator pathways, amenities, etc.)	22,608	4,415
	Modern Pentathlon Common Domain	Public spaces, Games overlay (spectator pathways, amenities, etc.)	5,156	3,260
Maracanã	João Havelange Stadium Urban Domain Renovations	Renovations, appropriation, demolition and transfer of structures and general upgrade of urban areas	66,771	-
	Sambódromo Urban Domain Renovations	Renovations, appropriation, demolition and transfer of structures and general upgrade of urban areas	20,804	-
Barra	Rio Olympic Park Precinct Common Domain	Appropriation, demolition, construction of structures and Games overlay (spectator pathways, amenities, residences, etc.)	216,403	18,155
	Riocentro Precinct Common Domain	Games overlay (spectator pathways, amenities, etc.)	-	3,830

SPORT AND VENUES

TABLE 9.4.1 – EXISTING VENUES, NO PERMANENT WORKS REQUIRED (IN USD MILLION)

VENUE	SPORT(S)	Financing of works						Original date of construction	Date(s) of any completed upgrade(s)	Works schedule	
		Cost of temporary works								Temporary works	
		Total cost of works USD 2008	OCOg		Other		Start date			Finish date	
			USD 2008	%	USD 2008	%					
Riocentro - Pavilion 2	Boxing	4,848	4,848	100	-	0	1977	2007	2015	2016	
Riocentro - Pavilion 3	Table Tennis	6,469	6,469	100	-	0	1977	2007	2015	2016	
Riocentro - Pavilion 4	Badminton	6,354	6,354	100	-	0	1977	2007	2015	2016	
Rio Olympic Arena	Gymnastics	4,094	4,094	100	-	0	2007	N/A	2015	2016	
Maracanãzinho Arena	Volleyball	2,737	2,737	100	-	0	1953	2007	2015	2016	
Maracanã Stadium ¹	Ceremonies, Football	5,572	5,572	100	-	0	1950	2007/2014	2015	2016	
Mané Garrincha Stadium (Brasília) ²	Football	3,726	3,726	100	-	0	1974	2013	2015	2016	
Mineirão Stadium (Belo Horizonte) ²	Football	3,726	3,726	100	-	0	1965	2013	2015	2016	
Fonte Nova Stadium (Salvador) ²	Football	3,726	3,726	100	-	0	1951	2013	2015	2016	
Morumbi Stadium (São Paulo) ²	Football	3,726	3,726	100	-	0	1960	2013	2015	2016	
TOTAL		44,978	44,978								

1. Maracanã Stadium was upgraded for the 2007 Pan American Games and will undergo additional renovation prior to the 2014 FIFA World Cup and is therefore considered 'existing' for the purposes of the 2016 Bid

2. Football stadiums to be used in regional cities outside Rio de Janeiro, will be upgraded to FIFA requirements for the 2014 FIFA World Cup and are therefore considered 'existing' for the purposes of the 2016 Bid. Cities to be confirmed upon FIFA's final decision for 2014 World Cup host cities

TABLE 9.4.2 – EXISTING VENUES, PERMANENT WORKS REQUIRED (IN USD MILLION)

VENUE	SPORT(S)	Financing of Works											Original date of construction	Works Schedule				
		Permanent works						Temporary works						Total cost of works USD 2008	Permanent works		Temporary works	
		Total perm. works USD 2008	OCOg		Other		Total temp. works USD 2008	OCOg		Other		Start date			Finish date	Start date	Finish date	
			USD 2008	%	USD 2008	%		USD 2008	%	USD 2008	%							
Rio Olympic Velodrome	Cycling (Track)	35,067	-	0	35,067	100	4,640	4,640	100	-	0	39,707	2007	2013	2015	2015	2016	
Maria Lenk Aquatic Center	Aquatics (Diving), Aquatics (Water Polo)	8,645	-	0	8,645	100	6,199	6,199	100	-	0	14,844	2007	2010	2011	2015	2016	
Sambódromo	Athletics (Marathon), Archery	13,455	-	0	13,455	100	9,276	9,276	100	-	0	22,731	1984	2013	2015	2015	2016	
João Havelange Stadium	Athletics (Track and Field)	41,271	-	0	41,271	100	11,207	11,207	100	-	0	52,478	2007	2013	2015	2015	2016	
National Shooting Center	Shooting	2,645	-	0	2,645	100	4,951	4,951	100	-	0	7,596	2007	2010	2011	2015	2016	
National Equestrian Center	Equestrian	10,740	-	0	10,740	100	9,603	9,603	100	-	0	20,343	2007	2010	2011	2015	2016	
Lagoa Rodrigo de Freitas	Rowing, Canoe/Kayak (Flatwater)	2,260	-	0	2,260	100	18,331	18,331	100	-	0	20,591	1953	2014	2015	2015	2016	
Marina da Glória	Sailing	9,480	-	0	9,480	100	12,604	12,604	100	-	0	22,084	1979	2014	2015	2015	2016	
TOTAL		123,563			123,563		76,811	76,811		0		200,374						

SPORT AND VENUES

TABLE 9.4.3 – VENUES TO BE BUILT - PERMANENT (IN USD MILLION)

VENUE	SPORT(S)	Financing of works										Works schedule				
		Permanent works						Temporary works				Permanent works		Temporary works		
		Total perm. works USD 2008	OCOG		Other		Total temp. works USD 2008	OCOG		Other		Total cost of works USD 2008	Start date	Finish date	Start date	Finish date
			USD 2008	%	USD 2008	%		USD 2008	%	USD 2008	%					
OTC - Hall 1 (Planned)	Basketball	195,240	-	0	195,240	100	7,958	7,958	100	-	0	56,768	2009	2011	2015	2016
OTC - Hall 2 (Planned)	Judo, Taekwondo		-	0		8,188	8,188	100	-	0	56,998	2009	2011	2015	2016	
OTC - Hall 3 (Planned)	Wrestling		-	0		7,884	7,884	100	-	0	56,694	2009	2011	2015	2016	
OTC - Hall 4 (Planned)	Handball		-	0		9,459	9,459	100	-	0	58,269	2009	2011	2015	2016	
Deodoro Arena (Planned)	Modern Pentathlon, Fencing	41,110	-	0	41,110	100	4,986	4,986	100	-	0	46,096	2009	2011	2015	2016
Olympic Tennis Center (Planned)	Tennis	46,115	-	0	46,115	100	16,693	16,693	100	-	0	62,808	2013	2015	2015	2016
Olympic Aquatics Stadium (Planned)	Aquatics (Swimming), Aquatics (Synchronized Swimming)	37,877	-	0	37,877	100	16,687	16,687	100	-	0	54,564	2013	2015	2015	2016
Olympic Whitewater Stadium (Additional)	Canoe/Kayak (Slalom)	26,160	-	0	26,160	100	4,819	4,819	100	-	0	30,979	2012	2015	2015	2016
Olympic BMX Center (Additional)	Cycling (BMX)	6,585	-	0	6,585	100	5,704	5,704	100	-	0	12,289	2012	2015	2015	2016
IBC (Additional)	-	110,455	-	0	110,455	100	19,560	19,560	100	-	0	130,015	2013	2015	2015	2016
MPC (Additional)	-	92,477	-	0	92,477	100	16,255	16,255	100	-	0	108,732	2013	2015	2015	2016
TOTAL		556,019			556,019		118,193	118,193		0	674,212					

TABLE 9.4.4 – VENUES TO BE BUILT – TEMPORARY ONLY (IN USD MILLION)

VENUE	SPORT(S)	Financing of works						Works schedule	
		Cost of temporary works						Temporary works	
		Total cost of works USD 2008	OCOG		Other		Start date	Finish date	
			USD 2008	%	USD 2008	%			
Copacabana Stadium	Volleyball (Beach)	10,782	10,782	100	N/A	N/A	2015	2016	
Fort Copacabana	Aquatics (Marathon Swimming), Triathlon	9,735	9,735	100	N/A	N/A	2015	2016	
Flamengo Park	Athletics (Race Walk), Cycling (Road)	8,827	8,827	100	N/A	N/A	2015	2016	
Riocentro - Pavilion 6	Weightlifting	17,980	17,980	100	N/A	N/A	2015	2016	
Olympic Hockey Center	Hockey	12,351	12,351	100	N/A	N/A	2015	2016	
Olympic Mountain Bike Park	Cycling (Mountain Bike)	8,409	8,409	100	N/A	N/A	2014	2016	
Deodoro Modern Pentathlon Park	Modern Pentathlon	10,362	10,362	100	N/A	N/A	2015	2016	
TOTAL		78,446	78,446		0				

SPORT AND VENUES

9.5 VENUE USE

FULL COMPLIANCE WITH IOC, IPC AND IFS

Venue use agreements

A venue use agreement has been established with each venue owner, addressing all IOC and IPC requirements. Venue ownership falls into three categories:

- Government-owned and operated: venue use agreements have been signed by Government (City, State or Federal) with no requirement for additional sub-agreements
- Government-owned with private concession/operator: the Governments have accepted full responsibility to negotiate any contracts and sub-contracts in compliance with the venue use agreement

- Privately-owned: for privately-owned venues, Rio 2016 has negotiated directly with the venue owner and has obtained the required venue use agreement.

International Federation agreements

IF agreements have been obtained for competition venues following extensive dialogue and consultation with each IF to ensure the highest standard of technical design.

Refer to Section 9 of the Guarantees File for Guarantees and IF agreements.

TABLE 9.5A – COMPETITION VENUE USE AND OWNERSHIP

COMPETITION VENUES		Use of venue		Ownership		Venue Guarantees		IF Agreement		
VENUE NAME (Existing/new venue)	Names of sports and disciplines/ number of events	Current use	Post-Games use	Current ownership	Post-Games ownership	Venue use	Com- mer- cial rights	IF name	Yes	No
BARRA CLUSTER										
Riocentro - Pavilion 2 (Existing Venue)	Boxing (11 events)	Exhibition Center	Exhibition Center	CG / PV concession	CG / PV concession	✓	✓	AIBA	✓	
Riocentro - Pavilion 3 (Existing Venue)	Table Tennis (4 events)	Exhibition Center	Exhibition Center	CG / PV concession	CG / PV concession	✓	✓	ITTF	✓	
Riocentro - Pavilion 4 (Existing Venue)	Badminton (5 events)	Exhibition Center	Exhibition Center	CG / PV concession	CG / PV concession	✓	✓	BWF	✓	
Riocentro - Pavilion 6 (Temporary Venue)	Weightlifting (15 events)	-	-	-	-	✓	✓	IWF	✓	
Rio Olympic Arena (Existing Venue)	Gymnastics (Artistic), Gymnastics (Rhythmic), Gymnastics (Trampoline) (18 events)	Multipurpose Arena	Multipurpose Arena	CG / PV concession	CG / PV concession	✓	✓	FIG	✓	
Rio Olympic Velodrome (Existing Venue)	Cycling (Track) (10 events)	Multipurpose Arena	Multipurpose Arena	CG/BOC concession	CG/BOC concession	✓	✓	UCI	✓	
Maria Lenk Aquatic Center (Existing Venue)	Aquatics (Diving), Aquatics (Water Polo) (10 events)	Multipurpose Arena	Multipurpose Arena	CG/BOC concession	CG/BOC concession	✓	✓	FINA	✓	
OTC - Hall 1 (New Venue)	Basketball (2 events)	-	Olympic Training Center	-	FG / BOC	✓	✓	FIBA	✓	
OTC - Hall 2 (New Venue)	Judo (14 events) Taekwondo (8 events)	-	Olympic Training Center	-	FG / BOC	✓	✓	FIJ WTF	✓	
OTC - Hall 3 (New Venue)	Wrestling (18 events)	-	Olympic Training Center	-	FG / BOC	✓	✓	FILA	✓	
OTC - Hall 4 (New Venue)	Handball (2 events)	-	Olympic Training Center	-	FG / BOC	✓	✓	IHF	✓	
Olympic Aquatics Stadium (New Venue)	Aquatics (Swimming and Synchronized Swimming) (34 events)	-	Olympic Training Center	-	FG / BOC	✓	✓	FINA	✓	
Olympic Hockey Center (Temporary Venue)	Hockey (2 events)	-	-	-	-	✓	✓	FIH	✓	
Olympic Tennis Center (New Venue)	Tennis (4 events)	-	Olympic Training Center	-	FG / BOC	✓	✓	ITF	✓	

FG = Federal Government, SG = State Government, CG = City Government, PV = Private, BOC = Brazilian Olympic Committee, PPP = Public-Private Partnership

SPORT AND VENUES

TABLE 9.5A – COMPETITION VENUE USE AND OWNERSHIP

CONTINUED

COMPETITION VENUES		Use of venue		Ownership		Venue Guarantees		IF Agreement		
VENUE NAME (Existing/new venue)	Names of sports and disciplines/ number of events	Current use	Post-Games use	Current ownership	Post-Games ownership	Venue use	Com- mer- cial rights	IF name	Yes	No
DEODORO CLUSTER										
National Shooting Center (Existing Venue)	Shooting (15 events)	Olympic Training Center	Olympic Training Center	FG	FG	✓	✓	ISSF	✓	
National Equestrian Center (Existing Venue)	Equestrian (6 events)	Olympic Training Center	Olympic Training Center	FG	FG	✓	✓	FEI	✓	
Deodoro Modern Pentathlon Park (Temporary Venue)	Modern Pentathlon (2 events)	-	-	-	-	✓	✓	UIPM	✓	
Deodoro Arena (New Venue)	Fencing (10 events)	-	Olympic Training Center	-	FG	✓	✓	FIE	✓	
Olympic Mountain Bike Park (Temporary Venue)	Cycling (Mountain Bike) (2 events)	-	-	-	-	✓	✓	UCI	✓	
Olympic Whitewater Stadium (New Venue)	Canoe/Kayak (Slalom) (4 events)	-	Community Park and Olympic Training Center	-	FG	✓	✓	ICF	✓	
Olympic BMX Center (New Venue)	Cycling (BMX) (2 events)	-	Community Park and Olympic Training Center	-	FG	✓	✓	UCI	✓	
MARACANÃ CLUSTER										
Maracanã Stadium (Existing Venue)	Ceremonies/Football (2 events)	Football Stadium	Football Stadium	SG	SG/PPP	✓	✓	- FIFA	✓	
Maracanãzinho Arena (Existing Venue)	Volleyball (2 events)	Multipurpose Arena	Multipurpose Arena	SG	SG/PPP	✓	✓	FIVB	✓	
Sambódromo (Existing Venue)	Archery (4 events) Athletics (Marathon) (2 events)	<i>Carnaval</i> and Events	<i>Carnaval</i> and Events	CG	CG	✓	✓	IAAF FITA	✓	
COPACABANA BEACH CLUSTER										
Copacabana Stadium (Temporary Venue)	Volleyball (Beach) (2 events)	-	-	-	-	✓	✓	FIVB	✓	
Fort Copacabana (Temporary Venue)	Aquatics (Marathon Swimming) (2 events) Triathlon (2 events)	-	-	-	-	✓	✓	FINA ITU	✓	
FLAMENGO PARK CLUSTER										
Marina da Glória (Existing Venue)	Sailing (11 events)	Marina	Marina	CG / PV concession	CG / PV concession	✓	✓	ISAF	✓	
Flamengo Park (Temporary Venue)	Athletics (Race Walk) (3 events), Cycling (Road) (4 events)	-	-	-	-	✓	✓	IAAF UCI	✓	
STAND ALONE VENUES										
João Havelange Stadium (Existing Venue)	Athletics (Track and Field) (42 events)	Football Stadium	Football Stadium	CG / PV concession	CG / PV concession	✓	✓	IAAF	✓	
Lagoa Rodrigo de Freitas (Existing Venue)	Canoe/Kayak (Flatwater) (12 events) Rowing (14 events)	Rowing/Canoe venue and commercial space	Rowing/Canoe venue and commercial space	SG/PV concession	SG/PV concession	✓	✓	FISA ICF	✓	
Mané Garrincha Stadium (Brasília) (Existing Venue)	Football (2 events)	Football Stadium	Football Stadium	SG	SG/PPP	✓	✓	FIFA	✓	
Mineirão Stadium (Belo Horizonte) (Existing Venue)	Football (2 events)	Football Stadium	Football Stadium	SG	SG/PPP	✓	✓	FIFA	✓	
Fonte Nova Stadium (Salvador) (Existing Venue)	Football (1 event)	Football Stadium	Football Stadium	SG	SG/PPP	✓	✓	FIFA	✓	
Morumbi Stadium (São Paulo) (Existing Venue)	Football (2 events)	Football Stadium	Football Stadium	PV	PV	✓	✓	FIFA	✓	

FG = Federal Government, SG = State Government, CG = City Government, PV = Private, BOC - Brazilian Olympic Committee, PPP = Public-Private Partnership

SPORT AND VENUES

TABLE 9.5B – TRAINING VENUE USE AND OWNERSHIP

TRAINING VENUES		Use of venue		Ownership	
VENUE NAME (Existing/new venue)	NAME OF SPORT/DISCIPLINE/EVENT	Current use	Post-Games use	Current ownership	Post-Games ownership
Army Assessment Center (existing)	Cycling (Road), Triathlon	Army Assessment Center	Army Assessment Center	Federal Government	Federal Government
Almirante Adalberto Nunes Physical Education Center (existing)	Aquatics (Diving), Aquatics (Water Polo)	Navy Physical Education Center	Navy Physical Education Center	Federal Government	Federal Government
Air Force University (existing)	Athletics (Track and Field)	Air Force University	Air Force University	Federal Government	Federal Government
Carlos Caetano Miragaya Municipal School (existing)	Volleyball	Public School	Public School	City Government	City Government
Sergio Buarque de Holanda Municipal School (existing)	Volleyball	Public School	Public School	City Government	City Government
Silveira Sampaio Municipal School (existing)	Volleyball	Public School	Public School	City Government	City Government
Olympic Training Center - Track and Field (new venue)	Athletics (Track and Field)	-	Olympic Training Center	-	Federal Government / BOC
Olympic Village Training Center (temporary venue)	Athletics (Marathon), Athletics (Race Walk), Modern Pentathlon, Aquatics (Marathon Swimming), Gymnastic (Artistic), Gymnastic (Rhythmic), Gymnastic (Trampoline), Handball, Taekwondo, Triathlon, Aquatics (Swimming), Athletics (Track and Field), Basketball, Judo, Volleyball, Wrestling	-	-	-	-
São Paulo F.C. Training Center (existing)	Football	Sporting Club	Sporting Club	Private	Private
S.E. Palmeiras Training Center (existing)	Football	Sporting Club	Sporting Club	Private	Private
Nacional A.C. Stadium (existing)	Football	Sporting Club	Sporting Club	Private	Private
C.A. Juventus Stadium (existing)	Football	Sporting Club	Sporting Club	Private	Private
Toca da Raposa 1 (existing)	Football	Sporting Club	Sporting Club	Private	Private
Toca da Raposa 2 (existing)	Football	Sporting Club	Sporting Club	Private	Private
C. Atlético Mineiro Training Center (existing)	Football	Sporting Club	Sporting Club	Private	Private
América F.C. Training Center (existing)	Football	Sporting Club	Sporting Club	Private	Private
E.C. Bahia (existing)	Football	Sporting Club	Sporting Club	Private	Private
Barradão Stadium (existing)	Football	Sporting Club	Sporting Club	Private	Private
Santiago Park Stadium (existing)	Football	Sporting Club	Sporting Club	Private	Private
Pituaçu Stadium (existing)	Football	Sporting Club	Sporting Club	Private	Private
Yacht Club of Brasília (existing)	Football	Sporting Club	Sporting Club	Private	Private
Minas Brasília Tennis Club (existing)	Football	Sporting Club	Sporting Club	Private	Private
Cruzeiro Stadium (existing)	Football	Sporting Club	Sporting Club	Private	Private
CAVE Stadium (existing)	Football	Sporting Club	Sporting Club	Private	Private
Deodoro Hockey Center (existing)	Hockey	Hockey Training Center	Hockey Training Center	Federal Government	Federal Government
Federal University of Rio de Janeiro (existing)	Aquatics (Synchronized Swimming), Athletics (Track and Field), Handball, Basketball	Federal University	Federal University	Federal Government	Federal Government
Vasco Barra Football Club (existing)	Football	Football Club	Football Club	Private	Private
Zico Football Club (existing)	Football	Football Club	Football Club	Private	Private
Juliano Moreira Sports Complex (existing)	Basketball, Football, Handball, Volleyball	Federal Institution	Federal Institution	Federal Government	Federal Government

SPORT AND VENUES

9.6 VENUES OWNED BY PUBLIC AUTHORITIES

PUBLIC VENUES AT NO COST

The Federal, State and City Governments have guaranteed to provide all Government-owned venues free of charge and free of any commercial rights issues to Rio 2016.

Refer to section 9 of the guarantees file.

9.7 VENUE BLOCK AND CLUSTER PLANS

CLIENT REQUIREMENTS AND EXPECTATIONS MET

Block planning has been undertaken with Games-experienced international and national experts in consultation with representatives from key Games clients.

9.7.1 VENUE PLANNING PRINCIPLES

Venue block plans were designed based on the following established and tested generic planning principles:

- Keeping the athlete experience as the primary driver, followed by that of other Games clients
- Meeting all IF, IOC and IPC technical, spatial and operational requirements
- Being consistent with Olympic and Paralympic Games planning principles and level of service expectations
- Designing for the appropriate levels of security
- Ensuring client-dedicated transport load zones and parking areas
- Ensuring efficient operations including the necessary affinities and separation between clients

- Ensuring the best atmosphere for all through the optimal relationship between the seating bowls and field of play
- Incorporating accessibility standards throughout, including for seating.

Block plans for each competition venue follow.

9.7.2 EFFICIENCY THROUGH CLUSTERS AND PRECINCTS

Within Rio's four venue zones, there are five venue clusters (containing four precincts) that have been planned recognizing the operational impacts and efficiencies for each:

- Barra Zone
 - Barra Cluster, including Rio Olympic Park Precinct and Riocentro Precinct
- Copacabana Zone
 - Copacabana Beach Cluster
 - Flamengo Park Cluster
- Maracanã Zone
 - Maracanã Cluster, including Maracanã Precinct
- Deodoro Zone
 - Deodoro Cluster including the X Park Precinct

Rio 2016's cluster design will add vibrancy to the Games experience, with celebration sites within each cluster to engage the broader community. Clusters will also take advantage of operational and logistical efficiencies, and will allow the easy circulation of accredited personnel on shuttles between venues within the cluster.

Refer to the block plans for each cluster.



SPORT AND VENUES

9.8 RESPECTIVE RESPONSIBILITIES

SEAMLESS DELIVERY

The respective responsibilities of all the entities accountable for any part of delivery of the venues have been agreed, with a commitment to work together under the umbrella of the Olympic Development Authority (ODA) to ensure seamless delivery (refer to Themes 3 and 4 for a description of the ODA role and responsibilities). All entities recognize that successful delivery is fully dependent on operational needs driving design.

Venue delivery

The proposed model for venue delivery will ensure all venues are delivered with the required technical specifications for Olympic and Paralympic Games, integrated with legacy needs from the outset. To facilitate this process, a department will be established immediately following the formation of Rio 2016 Organizing Committee integrating permanent design and construction (Venue Development) and temporary design and installation (Games Overlay). This department will be resourced with capability and expertise to ensure a seamless process of permanent and temporary design and construction for all competition and non-competition facilities. More broadly, the ODA will coordinate and oversee all venue development and will work closely and collaboratively with Rio 2016.

Venue development

All permanent venues will be developed under the coordinating direction of the ODA supported by the venue owners, namely the three levels of Government (Federal, State and City). Rio 2016 will be fully involved through all aspects of the process and the involvement of the IOC, IPC and International Federations will be embraced with fully transparent reporting and direct consultation at key phases.

Phase 1: Venue brief development

Comprehensive design briefs will be developed for all permanent venues, incorporating all legacy requirements identified by venue owners with the Games design, operational and environmental requirements identified by Rio 2016, in compliance with IOC, IPC and IF standards. Through this process Rio 2016 and the venue owners will agree which elements will be permanent and which will be temporary. All venue briefs will be made available to IFs for review of technical requirements, and will be submitted to the IOC.

Phase 2: Venue design

The ODA/venue owners will be responsible for the design of permanent venues. All levels of Government have agreed that Rio 2016 will be thoroughly involved in the design process including a formal sign off by Rio 2016 at concept design, detailed design and construction documentation stages. Rio 2016 will involve the IOC, IPC and IFs at all stages of the venue design process as required to ensure compliance.

Phase 3: Venue construction

The ODA/venue owners will be responsible for the construction of all permanent venues. All information regarding the process and progress of venue construction will be made available to the IOC and IPC as described in question 9.11.

Games overlay

Games overlay will consist of all built elements not being delivered by the ODA/venue owners, including all temporary venues. The Games overlay process, in terms of strategy, design, procurement and construction, will be the responsibility of the Rio 2016 Venue Development and Games Overlay department. The Games Overlay team will include necessary skills in the area of design, engineering, construction, project and budget management. The process for the delivery of Games overlay will be as follows:

Phase 1: Scope Definition

High level scope definition will be conducted, including agreements with the ODA/venue owners regarding identification of permanent and temporary elements. An initial Games overlay budget and scope will be prepared within the first year of the Organizing Committee based on the detailed work undertaken during the bid, and this will be continually validated throughout the process.

Phase 2: Games overlay design

Rio 2016 will commence the venue operational design process by establishing a model venue soon after the 2012 London Olympic Games, in cooperation with the Rio 2016 Venue Management department and all involved client and functional departments. Games Overlay designers will develop concept, detailed scopes and operational designs for each venue. This process will continue to involve the key clients and service providers, and will include the delivery of Games overlay for test events. There will be continuous follow-up with the legacy design process to ensure all changes in the permanent construction are smoothly conciliated with the overlay design and the opportunities created are leveraged to deploy the best scenario for the Games.

Phase 3: Games overlay delivery

Rio 2016 will be responsible for procurement and project management to deliver Games overlay. The procurement process will be undertaken to ensure quality and cost efficiencies which will include establishing consistent standards across all venues and facilities. This will be assisted by an initiative launched by the Ministry of Sport to create a national database for costs, providers and specifications for temporary installations in sport events, an initiative expected to provide a significant enhancement to the local market's product quality and service. Extensive qualification criteria will be produced and applied in the procurement process to ensure that the required quality standards are fully met. The IOC will have access to all information regarding the scope and standards of the Games overlay, as described in question 9.11.

Refer to Table 9.8 for delivery responsibilities by venue.

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TABLE 9.8 - RESPONSIBILITIES FOR VENUE DEVELOPMENT

VENUE	Land assembly	Feasibility		Permanent works				Temporary infrastructure/overlay				Pre-Games operation
		Feasibility study	Approval of feasibility study	Design tender	Design contract approval	Construction tender	Construction contract approval	Design tender	Design contract approval	Construction tender	Construction contract approval	
OTC - Hall 1	-	FGV	FG	FG	FG	FG	FG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	FG / BOC
OTC - Hall 2	-	FGV	FG	FG	FG	FG	FG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	FG / BOC
OTC - Hall 3	-	FGV	FG	FG	FG	FG	FG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	FG / BOC
OTC - Hall 4	-	FGV	FG	FG	FG	FG	FG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	FG / BOC
Olympic Hockey Center	-	-	-	-	-	-	-	Rio 2016	Rio 2016	Rio 2016	Rio 2016	-
Olympic Tennis Center	-	FGV	FG	FG	FG	FG	FG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	FG / BOC
Rio Olympic Velodrome	-	-	-	CG	CG	CG	CG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	BOC
Maria Lenk Aquatic Center	-	-	-	CG	CG	CG	CG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	BOC
Olympic Aquatics Stadium	-	FGV	FG	FG	FG	FG	FG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	FG / BOC
Rio Olympic Arena	-	-	-	-	-	-	-	Rio 2016	Rio 2016	Rio 2016	Rio 2016	Private
Riocentro - Pavilion 2	-	-	-	-	-	-	-	Rio 2016	Rio 2016	Rio 2016	Rio 2016	Private
Riocentro - Pavilion 3	-	-	-	-	-	-	-	Rio 2016	Rio 2016	Rio 2016	Rio 2016	Private
Riocentro - Pavilion 4	-	-	-	-	-	-	-	Rio 2016	Rio 2016	Rio 2016	Rio 2016	Private
Riocentro - Pavilion 6	-	-	-	-	-	-	-	Rio 2016	Rio 2016	Rio 2016	Rio 2016	-
Lagoa Rodrigo de Freitas	-	-	-	SG	SG	SG	SG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	Private
Copacabana Stadium	-	-	-	-	-	-	-	Rio 2016	Rio 2016	Rio 2016	Rio 2016	-
Fort Copacabana	-	-	-	-	-	-	-	Rio 2016	Rio 2016	Rio 2016	Rio 2016	-
Marina da Glória	-	-	-	CG	CG	CG	CG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	Private
Flamengo Park	-	-	-	-	-	-	-	Rio 2016	Rio 2016	Rio 2016	Rio 2016	-
Maracanã Stadium ¹	-	-	-	-	-	-	-	Rio 2016	Rio 2016	Rio 2016	Rio 2016	SG
Maracanãzinho Arena	-	-	-	-	-	-	-	Rio 2016	Rio 2016	Rio 2016	Rio 2016	SG
Sambódromo	CG	-	-	CG	CG	CG	CG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	CG
João Havelange Stadium	CG	-	-	CG	CG	CG	CG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	Private
National Equestrian Center	-	-	-	FG	FG	FG	FG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	FG
National Shooting Center	-	-	-	FG	FG	FG	FG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	FG
Olympic Mountain Bike Park	-	-	-	-	-	-	-	Rio 2016	Rio 2016	Rio 2016	Rio 2016	-
Olympic Whitewater Stadium	-	FGV	FG	FG	FG	FG	FG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	FG
Olympic BMX Center	-	FGV	FG	FG	FG	FG	FG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	FG
Deodoro Modern Pentathlon Park	-	-	-	-	-	-	-	Rio 2016	Rio 2016	Rio 2016	Rio 2016	-
Deodoro Arena	-	FGV	FG	FG	FG	FG	FG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	FG
Mané Garrincha Stadium (Brasília)	-	-	-	-	-	-	-	Rio 2016	Rio 2016	Rio 2016	Rio 2016	SG
Mineirão Stadium (Belo Horizonte)	-	-	-	-	-	-	-	Rio 2016	Rio 2016	Rio 2016	Rio 2016	SG
Bahia Arena (Salvador) ¹	-	-	-	-	-	-	-	Rio 2016	Rio 2016	Rio 2016	Rio 2016	SG
Morumbi Stadium (São Paulo) ¹	-	-	-	-	-	-	-	Rio 2016	Rio 2016	Rio 2016	Rio 2016	Private
Olympic and Paralympic Village	CG	FGV	FG	Private	Private	Private	Private	Rio 2016	Rio 2016	Rio 2016	Rio 2016	-
IBC	CG	FGV	FG	FG	FG	FG	FG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	-
MPC	CG	FGV	FG	FG	FG	FG	FG	Rio 2016	Rio 2016	Rio 2016	Rio 2016	-

FG = Federal Government, SG = State Government, CG = City Government, BOC - Brazilian Olympic Committee, FGV = Getúlio Vargas Foundation
 1. All football stadiums will be fully renovated for the 2014 FIFA World Cup and delivered to Rio 2016 in Olympic standards.

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9.9 LAND ACQUISITION

PROVEN PROCESS

The City of Rio has extensive and proven experience in the implementation of substantial urban development projects, many of which require land acquisition including compulsory acquisition. With all planned and additional projects (including temporary venues) under Government control, any necessary land and real-estate acquisition will follow well-established policies and procedures. Current legislation supported by the 1988 Federal Constitution empowers the City Government to appropriate privately-owned properties to meet urban planning objectives. The process defined by law follows two phases:

- Declaration Phase: defined by a Mayor's decree declaring the land or property as a public utility asset
- Implementation Phase: defined by specific administrative measures taken by the City to acquire the land. These measures may be implemented through an administrative procedure taking 30 days or, if terms cannot be agreed between the City and the land owner, by a judicial process taking approximately 100 days. In the case of a judicial process, on submission by the City to the Court of the State of Rio de Janeiro, the Court will determine a provisional possession claim in favor of the City which is then entitled to proceed with the acquisition.

Realization of the Games Master Plan anticipates the relocation of some legal and illegal dwellings and acquisition of land to support infrastructure works. Where relocation of people is required, particularly those in less advantaged communities subject to regeneration projects, opportunities will be provided to relocate to new social housing that will significantly improve their living standards. In addition to the compulsory purchase protocol discussed above, the 1988 Federal Constitution establishes the fundamental rights for housing, while the Rio Master Plan defines the responsibility to enforce City land utilization and zoning.

All relocation of people is coordinated by the City's Habitat Municipal Secretariat. Three financial and social models support relocation in the instance of compulsory acquisition:

- Housing assistance/compensation: the City pays the full value of the property plus 40%
- Assisted acquisition: the owner identifies a new property and the City acquires it directly and transfers it to the owner. In this case, housing will be within the same neighborhood
- Full social assistance: new residential complexes are built for the community's residents. The community's overall requirements are considered, including gender, age and accessibility requirements. Schools, parks and office spaces also are built to sustain the new communities. If additional time is required for the new residential complex to be finalized, a rental fee is paid and social assistance is provided continuously to each family.

All procedures and policies practiced in Brazil and specifically in Rio are in accordance with international standards and the Games will present opportunities to regenerate areas and provide enhanced community facilities in key locations throughout the city.

9.10 TENDERING

FAIR, TRANSPARENT, COMPETITIVE PROCESS

Brazilian legislation ensures fairness, transparency and competitiveness in all tender processes. Established timeframes will guarantee the effective delivery of the venues for the Olympic and Paralympic Games and all required test events.

Permanent works

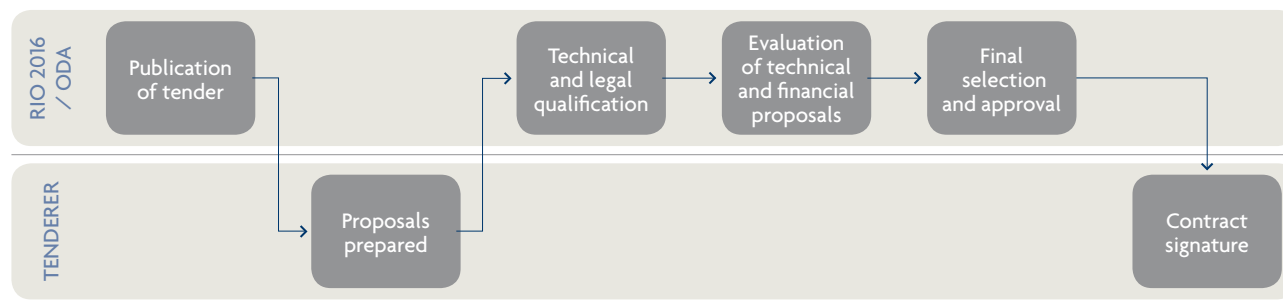
The tendering processes for all permanent venues, including the IBC/MPC, will be conducted by the ODA in compliance with the specific and established legislation for procurement (Federal, State and City). Tenders will be open to both national and international companies that meet the legal and technical criteria.

The majority of permanent venues, including the Olympic Training Center facilities in Barra, will be undertaken using a standard tender process for major works which has six key milestones, with specific timeframes for each as follows:

- 1 Publication of notices containing the rules to be followed by all participants, including the qualification requirements to be met, the desired capability and experience and the objective of the tender
- 2 Technical and legal qualification of the participants
- 3 Evaluation of the technical proposals
- 4 Evaluation of the financial proposals
- 5 Final selection and approval
- 6 Signature of the contract.

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TENDER PROCESS



In accordance with Brazilian legislation, protests and appeals can be addressed by unsuccessful bidders to the ODA within three to ten days.

Following the above mentioned process, tenders for the Olympic Training Center, X Park Precinct and Deodoro Modern Pentathlon Park will be published in two separate phases for design and construction to ensure the required qualification and timely construction of the venues. The Olympic and Paralympic Village and Barra Media Village developments will be undertaken by private institutions and, therefore, will not be subject to this procurement process. However, Rio 2016 will deliver the Games overlay for these projects and will be fully integrated into the design process.

Temporary works

The procurement for the temporary work at the venues (Games overlay) will be conducted by Rio 2016. Tender legislation applied to Government entities does not apply to non-Government entities such as Rio 2016. However, in the interests of ensuring competitiveness, quality and transparency, a similar procurement process will be applied for temporary works. The timelines will be adjusted to ensure the expeditious delivery of temporary works. These tenders will also be open to national and international companies.

Ensuring quality

For both Government and Rio 2016 tenders, the tendering entity (ODA or Rio 2016) will establish the selection criteria and for all Games projects an emphasis will be placed on capability, quality and experience to ensure the Olympic and Paralympic Games projects are implemented at the highest possible level. Sustainability considerations will be included among the selection criteria. Each tendering entity has the ability to implement its own weighting for specific criteria, ensuring that an appropriate balance of cost, quality and capability can be maintained for all projects.

Flexibility to adapt

Acknowledging the dynamic environment of an Olympic and Paralympic Games, with multiple stakeholders and service providers with very specific requirements, the Rio 2016 tender process, following Brazilian legislation, has flexibility to extend contracts for goods or services in each project by 25% within the framework of the agreed tender. This will provide flexibility in the latter stages of planning.

The expected timeline for each venue construction and overlay implementation is defined in the tables 9.4 and takes into account the above mentioned processes and has been subjected to risk management and contingency.

9.11 REPORTING AND MONITORING

INTEGRATED, TRANSPARENT PROJECT DELIVERY

The collaboration established between Government and the 2007 Pan American Games Organizing Committee underpinned the successful delivery of many permanent and temporary venues for those Games. This partnership provides the foundation on which the delivery responsibility matrix provided in question 9.8 above is built, ensuring accurate, timely and proactive monitoring and reporting on all Games projects throughout all phases of delivery.

Rio 2016 commits to monitor and report to the IOC on delivery of Games venues and infrastructure, and additionally on delivery of any non-Games works that may impact on successful completion of Games projects. Further, Rio 2016 commits to joint monitoring with the IOC regarding delivery of support services and facilities.

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With all permanent venues being the financial and delivery responsibility of Government, Rio 2016 will establish monitoring and reporting protocols with the ODA, given its overarching responsibility to coordinate delivery of capital works projects and Government services. This will be integrated with monitoring and reporting on delivery of Games overlay, a responsibility of Rio 2016.

Project Control Groups (PCG) will be established for each Games project, with representation by the venue owner, Rio 2016 Sport and Venues functions, the ODA, the future venue operator, consultants and contractors. The outcomes of the regular PCG meetings will form the basis of reporting content. Further, the ODA will engage an independent project auditor to give all parties further confidence of the accuracy of the joint monitoring and reporting mechanisms.

Reporting will be made to the IOC and IPC coincident with Coordination Commission meetings, Technical Meetings and Working Groups or Project Reviews as required, using tools agreed with the IOC. Physical inspections will complement the

reports. Rio 2016 will involve the IFs and the OBO in all relevant aspects of venue design and delivery and will encourage an open collaborative relationship to benefit from the substantial experience of the IFs and the OBO.

9.12 VENUE SCHEDULE

OPTIMAL USE OF VENUES

The proposed competition schedule, and subsequent venue schedule, has been designed with the full input and support of all IFs and has taken into consideration venue sharing options to maximize use of venues where feasible.

Enabling athletes to perform in ideal conditions and achieving high performance results has been the driving objective when determining session starting times, along with spectator load on venues and precincts, and consideration of broadcast times to countries where particular sports are popular. Further, the schedule design reflects optimal session lengths, in line with Rio 2016's full stadiums program.

TABLE 9.12 – VENUE SCHEDULE

COMPETITION VENUES		03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
VENUE NAME	Sport/discipline/event	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BARRA CLUSTER																				
Maria Lenk Aquatic Center	Aquatics (Water Polo)				09:30 13:30		09:30 13:30		09:30 13:30		09:30 13:30		09:30 13:30		09:30 13:30		09:30 13:30		09:30 12:00	
	Aquatics (Diving)							09:00 12:00		09:00 12:00		09:00 12:00		09:00 12:00						
OTC - Hall 1	Basketball				09:00 13:00	09:00 13:00	09:00 13:00	09:00 13:00	09:00 13:00	09:00 13:00	09:00 13:00	09:00 13:00	09:00 13:00	09:00 13:00	09:00 13:00	09:00 13:00	09:00 13:00	09:00 13:00	09:00 13:00	11:00 16:00
					14:30 18:30	14:30 18:30	14:30 18:30	14:30 18:30	14:30 18:30	14:30 18:30	14:30 18:30	14:30 18:30	14:30 18:30	14:30 18:30	14:30 18:30	14:30 18:30	14:30 18:30	14:30 18:30	14:30 18:30	17:30 22:30
OTC - Hall 2	Judo				10:00 14:30	10:00 14:30	10:00 14:30	10:00 14:30	10:00 14:30	10:00 14:30	10:00 14:30	10:00 14:30	10:00 14:30	10:00 14:30	10:00 14:30	10:00 14:30	10:00 14:30	10:00 14:30	10:00 14:30	10:00 14:30
	Taekwondo				20:00 22:00	20:00 22:00	20:00 22:00	20:00 22:00	20:00 22:00	20:00 22:00	20:00 22:00	20:00 22:00	20:00 22:00	20:00 22:00	20:00 22:00	20:00 22:00	20:00 22:00	20:00 22:00	20:00 22:00	20:00 22:00
OTC - Hall 3	Wrestling (Freestyle) M																	09:30 13:00	09:30 13:00	09:30 13:00
	Wrestling (Freestyle) W																	16:00 18:50	16:00 18:50	16:00 19:45
	Wrestling (Greco-Roman)										09:30 13:00	09:30 13:00	09:30 13:00					16:00 18:30	16:00 18:30	

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TABLE 9.12 – VENUE SCHEDULE

CONTINUED

COMPETITION VENUES		03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21		
VENUE NAME	Sport/discipline/event	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
BARRA CLUSTER																						
OTC - Hall 4	Handball				09:00 12:15	09:00 12:15	09:00 12:15	09:00 12:15	09:00 12:15	09:00 12:15	09:00 12:15	09:00 12:15	09:00 12:15	09:00 12:15	09:00 12:15	12:00 16:15	12:00 16:15	12:00 16:15	12:00 16:15	08:00 12:15	08:00 12:15	
					14:00 17:15	14:00 17:15	14:00 17:15	14:00 17:15	14:00 17:15	14:00 17:15	14:00 17:15	14:00 17:15	14:00 17:15	14:00 17:15	14:00 17:15					13:30 18:20	13:30 18:20	
					19:00 22:15	19:00 22:15	19:00 22:15	19:00 22:15	19:00 22:15	19:00 22:15	19:00 22:15	19:00 22:15	19:00 22:15	19:00 22:15	19:00 22:15	19:00 22:15	18:00 22:15	18:00 22:15	18:00 22:15	18:00 22:15		
Olympic Aquatics Stadium	Aquatics (Swimming)				10:00 12:00	10:00 12:00	10:00 12:00	10:00 12:00	10:00 12:00	10:00 12:00	10:00 12:00											
	Aquatics (Synchronized Swimming)				19:00 21:00	19:00 21:00	19:00 21:00	19:00 21:00	19:00 21:00	19:00 21:00	19:00 21:00	19:00 21:00			14:30 16:30	14:30 16:30	14:30 16:30		14:30 16:30	14:30 16:30		
Olympic Hockey Center	Hockey				08:30 12:00	08:30 12:00	08:30 12:00	08:30 12:00	08:30 12:00	08:30 12:00	08:30 12:00	08:30 12:00	08:30 12:00	08:30 12:00	08:30 12:00	08:30 12:00	08:30 13:00	08:30 13:00	08:30 13:00	08:30 13:00	08:30 13:00	
					13:30 17:30	13:30 17:30	13:30 17:30	13:30 17:30	13:30 17:30	13:30 17:30	13:30 17:30	13:30 17:30	13:30 17:30	13:30 17:30	13:30 17:30	13:30 17:30						
					18:30 22:30	18:30 22:30	18:30 22:30	18:30 22:30	18:30 22:30	18:30 22:30	18:30 22:30	18:30 22:30	18:30 22:30	18:30 22:30	18:30 22:30	18:30 22:30	18:30 22:00	17:30 22:00	17:30 22:00	17:30 22:00	17:30 22:00	17:30 22:30
Olympic Tennis Center	Tennis				10:30 14:30	10:30 14:30	10:30 14:30		10:30 14:30	10:30 14:30	10:30 14:30											
Rio Olympic Arena	Gymnastics (Artistic)				16:00 22:00	16:00 22:00	16:00 22:00	16:00 22:00	16:00 22:00	16:00 22:00	16:00 22:00	16:00 22:00	16:00 22:00	16:00 22:00	16:00 22:00							
					13:30 16:00	13:30 15:00	19:00 22:00	19:00 21:30		19:00 21:45	19:00 21:00		19:00 22:00	19:00 22:00						19:00 20:30		
					16:30 19:00	15:30 17:00																
				20:00 22:30	18:00 19:30		20:00 21:30															
		Gymnastics (Rhythmic)													09:00 16:30	09:00 19:00	14:00 17:00	19:00 21:30	20:00 21:30			
	Gymnastics (Trampoline)								19:00 21:00				19:00 21:00									
Rio Olympic Velodrome	Cycling (Track)									16:30 19:00	16:30 19:30	16:30 19:00	16:30 19:00	16:30 20:00								
Riocentro - Pavilion 2	Boxing				13:30 17:00	13:30 16:30	13:30 16:30	13:30 16:30	13:30 17:00	13:30 16:30	13:30 16:30	13:30 16:30							13:30 16:00	13:30 17:00		
					19:00 22:30	19:00 22:00	19:00 22:00	19:00 22:00	19:00 22:30	19:00 22:00	19:00 22:00	19:00 22:00	19:00 22:00	19:00 22:00	19:00 22:00	19:00 22:00	19:00 21:00			19:00 22:00	19:00 22:00	
Riocentro - Pavilion 3	Table Tennis				10:00 13:00	10:00 13:00	09:00 12:00	10:00 13:00	10:00 13:00	10:00 13:00	10:00 13:00	10:00 13:00	10:00 13:00	10:00 13:00	10:00 13:00	10:00 12:00	10:00 12:00					
					14:30 17:30	14:30 17:30	14:30 17:30	14:30 17:30	14:30 17:30	14:30 17:30						13:30 17:30						
					19:30 22:30	19:30 22:30	19:30 22:30	19:30 22:30	19:30 22:30	19:30 22:30	19:30 22:30	18:00 22:00	18:00 23:00	18:00 22:00	18:00 21:30	19:30 21:30	19:30 21:30					
Riocentro - Pavilion 4	Badminton				09:00 12:00	09:00 12:00	09:00 12:00	10:00 13:30	10:00 13:30	10:00 13:30	10:00 13:30											
					14:00 16:30	14:00 16:30	14:00 16:30															
Riocentro - Pavilion 6	Weightlifting				18:30 22:30	18:30 22:30	18:30 22:30	18:30 22:00	18:30 22:00	18:30 22:00	18:30 22:00	18:30 22:00	18:30 22:00	18:30 22:00								
					10:00 14:00	10:00 14:00	10:00 14:00	10:00 14:00	10:00 14:00	10:00 14:00	10:00 14:00											
					15:30 17:30	15:30 17:30	15:30 17:30	15:30 17:30	15:30 17:30	15:30 17:30	15:30 17:30	15:30 17:30	15:30 17:30	15:30 17:30	15:30 17:30	15:30 17:30	15:30 17:30	15:30 17:30				
			19:00 21:00	19:00 21:00	19:00 21:00	19:00 21:00	19:00 21:00	19:00 21:00	19:00 21:00	19:00 21:00	19:00 21:00	19:00 21:00	19:00 21:00	19:00 21:00	19:00 21:00	19:00 21:00	19:00 21:00					
COPACABANA BEACH CLUSTER																						
Copacabana Stadium	Volleyball (Beach)				09:00 15:00	09:00 15:00	09:00 15:00	09:00 15:00	09:00 15:00	09:00 23:00	09:00 13:00	09:00 13:00	10:00 12:00	10:00 12:00	09:00 11:00	09:00 12:30	09:00 12:30					
					17:00 23:00	17:00 23:00	17:00 23:00	17:00 23:00	17:00 23:00	17:00 23:00			18:00 22:00	18:00 22:00	20:00 22:00							
Fort Copacabana	Aquatics (Marathon Swimming)													09:00 12:00	09:00 12:00							
	Triathlon							10:00 12:45	10:00 12:45													

SPORT AND VENUES

TABLE 9.12 – VENUE SCHEDULE

CONTINUED

COMPETITION VENUES		03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
VENUE NAME	Sport/discipline/event	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FLAMENGO PARK CLUSTER																				
Flamengo Park	Cycling (Road)				11:00 17:30				11:30 13:00											
	Athletics (Race Walk)					14:00 17:30			13:30 17:30								08:00 10:00			07:30 12:30
Marina da Glória	Sailing					09:00 18:00	09:00 18:00	09:00 18:00	09:00 18:00	09:00 18:00	09:00 18:00	09:00 18:00	09:00 18:00	09:00 18:00	09:00 18:00	09:00 18:00	09:00 18:00	09:00 18:00	09:00 18:00	
DEODORO CLUSTER																				
Deodoro Arena	Fencing				10:00 14:00	10:00 15:00	10:00 15:00	10:00 14:00	10:00 16:30	09:30 15:30	09:00 17:00	09:00 17:00	09:30 15:30							
					19:00 21:00	19:00 21:30	19:00 21:30	19:00 21:00	18:00 22:30	18:00 20:30	18:00 21:30	18:00 21:30	18:00 20:30							
Deodoro Modern Pentathlon Park	Modern Pentathlon																	08:30 20:00	08:30 20:00	
National Equestrian Center	Equestrian (Dressage)										16:30 21:30	16:30 21:30		16:30 21:00		17:30 21:00				
	Equestrian (Eventing)					08:30 12:30	08:30 12:30	08:00 11:30	16:30 21:30											
	Equestrian (Jumping)												17:30 21:30		17:30 21:30		17:30 21:00	16:30 20:45		
National Shooting Center	Shooting (Rifle & Pistol)				08:30 16:00	09:00 13:00	09:00 13:00	09:00 13:00	09:00 16:00	09:00 13:30	09:00 15:00	09:00 13:00	09:00 14:30							
	Shooting (Trap)				09:00 13:30	09:00 16:30	09:00 16:30	09:00 16:30		09:00 16:30	09:00 13:30	09:00 16:30								
Olympic BMX Center	Cycling (BMX)														09:00 12:00	09:00 12:00				
Olympic Mountain Bike Park	Cycling (Mountain Bike)																		13:30 15:30	13:30 16:00
Olympic White-water Stadium	Canoe/Kayak (Slalom)					10:00 14:00	10:00 13:30	10:00 14:00	10:00 13:30											
MARACANÁ CLUSTER																				
Maracanã Stadium	Opening/Closing Ceremonies			Cere.																Cere.
	Football							17:00 21:30						17:00 21:00	17:00 21:00		17:00 21:00	17:00 21:00		
Maracanãzinho Arena	Volleyball				09:00 12:30	09:00 12:30	09:00 12:30	09:00 12:30	09:00 12:30	09:00 12:30	09:00 12:30	09:00 12:30	09:00 12:30	09:00 12:30	09:00 12:30	09:00 12:30	09:00 12:30	09:00 12:30	09:00 12:30	10:00 14:00
					14:30 17:30	14:30 17:30	14:30 17:30	14:30 17:30	14:30 17:30	14:30 17:30	14:30 17:30	14:30 17:30	14:30 17:30	14:30 17:30	14:30 17:30	14:30 17:30	14:30 17:30	14:30 17:30	14:30 17:30	14:30 17:30
					19:00 22:30	19:00 22:30	19:00 22:30	19:00 22:30	19:00 22:30	19:00 22:30	19:00 22:30	19:00 22:30	19:00 22:30	19:00 22:30	19:00 22:30	19:00 22:30	19:00 22:30	19:00 22:30	19:00 22:30	19:00 22:30
Sambódromo	Archery				11:00 13:00	10:00 13:30	10:00 13:00	09:00 12:30	09:00 12:30	10:30 12:30	10:30 12:30									
					14:00 16:00			14:00 17:00	14:00 17:00											
	Athletics (Marathon) M																			09:00 12:00
	Athletics (Marathon) W												09:00 12:00							
STAND-ALONE																				
João Havelange Stadium	Athletics (Track and Field)										09:00 13:30	09:00 13:30	07:30 10:40	09:00 12:00	09:00 11:30		09:00 13:00	07:30 16:00		
Lagoa Rodrigo de Freitas	Canoe/Kayak (Flatwater)														10:00 13:30	10:00 13:30	10:00 13:30	10:00 13:30	10:00 13:30	10:00 13:30
	Rowing				10:00 14:00	10:00 14:00	10:30 13:00	10:00 16:00	10:00 12:30	10:00 12:00			10:00 12:00	10:00 12:30						
FOOTBALL CITIES																				
Fonte Nova Stadium (Salvador)	Football		17:00 21:30			17:00 21:30			17:00 21:30		17:00 21:30	17:00 21:30								
Mané Garrincha Stadium (Brasília)	Football	17:00 21:30	17:00 21:30		17:00 21:30	17:00 21:30			17:00 21:30		17:00 21:30	17:00 21:30								
Mineirão Stadium (Belo Horizonte)	Football	17:00 21:30	17:00 21:30		17:00 21:30	17:00 21:30		17:00 21:30	17:00 21:30		17:00 21:30	17:00 21:30								
Morumbi Stadium (São Paulo)	Football	17:00 21:30	17:00 21:30		17:00 21:30	17:00 21:30		17:00 21:30	17:00 21:30		17:00 21:30	17:00 21:30								

SPORT AND VENUES



9.13 ELECTRICAL POWER

CLEAN ENERGY FOR RIO'S GAMES

9.13.1 UTILITY GRID AND GENERATING PLANTS

Currently 89% of Brazil's electrical energy is produced from renewable sources, primarily hydroelectric generation. A new wind power plant close to Rio will generate 180MW, delivering a capacity higher than current estimated Games needs. In addition, Rio 2016 plans to supply some venue services such as water heating from solar power and fuel cell generators as backup sources. Rio 2016 will use a network of sources with 100% of its requirements able to be generated from clean energy sources.

The electrical energy sector is highly successful and well structured. The regional network of the State of Rio is part of Brazil's National Interconnected System (SIN). Today more than 95% of the country's electricity capacity is interconnected by SIN with approximately 170,000km of transmission lines, ensuring redundancy for the overall supply to the City of Rio. The City of Rio is connected with the national grid at three main gates.

The peak power loads in the City of Rio in winter/summer of 2007 equaled 4,500/5,300MW. The growth of power demand in Rio was and will remain less than the average of the southeast region of Brazil (only 0.8% per year). At the time of the 2016 Olympic and Paralympic Games the total power demand in Rio, including the Olympic venues, is likely to reach 4,900MW. Installed power for the Olympic premises in the city is estimated to be approximately 93MW (2% of demand), including new and existing venues. The additional venues raise some new requirements for the distribution system in terms of redundancy and reliability, which are addressed in the already planned measures.

Rio produces more electrical energy than it consumes and, as such, could export energy to other regions. Even in the absence of the interconnected system it would be possible to operate Rio power grid as a power island. To provide this energy the power plants already installed in Rio generate more than 5,800MW.

Power infrastructure developments will be funded from Federal budgets and their subsidiary power companies, from the

privately owned local energy distribution company and from private sources. The final balance between Government and private capital depends on the results of the energy auctions. The two last auctions in 2008 for new energy confirmed additional power of 1,935MW for 2011 and 5,556MW for 2013.

9.13.2 ADDITIONAL POWER

The long-term development goals for Rio already require the Company of Energy Research (EPE) to formally plan the improvement of Rio's supply network and its connection with the national grid. These planned improvements provide an already secured solution to support the requirements of Rio 2016 to operate the Games.

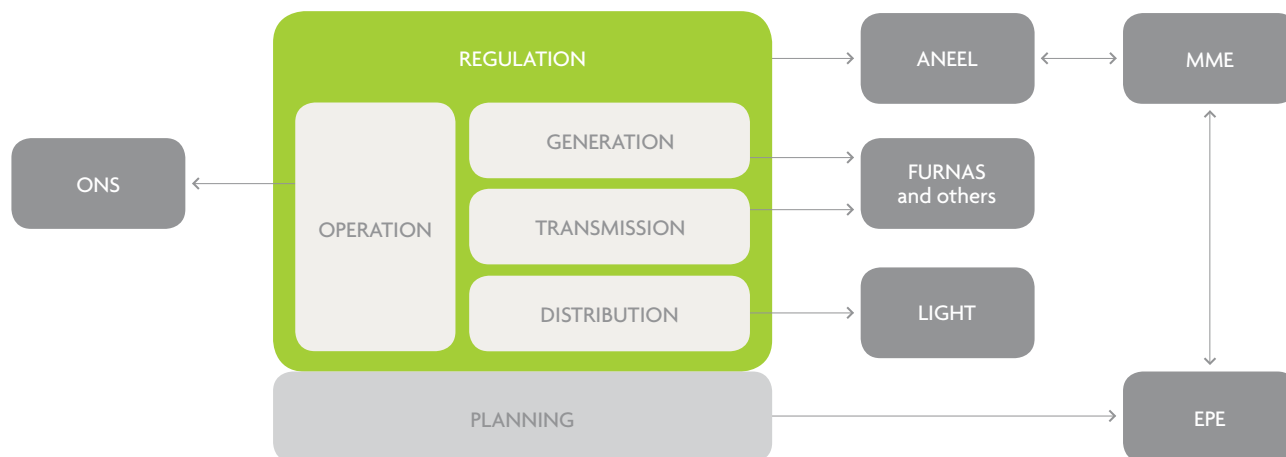
9.13.3 LOCAL AND REGIONAL ELECTRICAL SECTOR

The following organizations are important for the successful planning, implementation and operation of the system concerning the State and City of Rio:

- EPE - Company of Energy Research – A state-owned company subordinated to the Ministry of Mines and Energy (MME), responsible for the strategic planning of the energy sector in Brazil
- ANEEL - National Agency of Electrical Energy – The regulatory agency for the electrical sector linked to the MME. Its responsibilities include regulation and control of market and also conduct of the energy auctions every year
- FURNAS - Furnas Centrais Elétricas S.A. – A state-owned company, responsible to produce and transport energy delivered to the city
- LIGHT - Light Serviços de Eletricidade S.A. – A privately owned company responsible for the distribution system under 138kV. LIGHT sells energy to consumers and is responsible to deliver power to all locations of the Games in Rio
- ONS - National Operator of the Electrical System – A non-profit organization composed of market stakeholders. It is responsible for coordinating and controlling the operation of the SIN under the supervision and regulation of ANEEL.

SPORT AND VENUES

LOCAL AND REGIONAL ELECTRICAL SECTOR



9.13.4 DISTRIBUTION PLANNED IMPROVEMENTS

Brazil will experience increased power consumption of approximately 57% by 2017. Due to the yearly revision of the Decennial Energy Expansion Plan (PDE) and the subordinated auctions that take place each year, no additional power projects, with the exception of those already planned, will be necessary for the Games.

The majority of the existing venue locations already have reliable electricity supplies from the local distribution network. In 2007, the region's average service reliability was 99.9%. Local investments to improve the network redundancy and to increase the system reliability are planned regardless of the Games and will be completed before 2016.

9.13.5 HIGH QUALITY POWER

The power delivered in Rio is of excellent quality and under acceptable variable levels for regular use. Rio 2016 acknowledges the importance of providing stable, reliant power, accommodating different client needs, with appropriate contingencies built into the systems. To deliver power within narrow parameters required for specialized equipment across the Games venues, special power supply will be installed at the venue power distribution substations. These solutions will be based on fuel cells generators with hydrogen supplied from ethanol. Electrical power for broadcasting will use this source deploying a configuration of twin pack sets to achieve the highest levels of fault tolerance.

The 2007 Pan American Games experience provided many lessons from which Rio 2016's broadcasting power supply operation solution will be developed in close cooperation with Olympic Broadcasting Services (OBS).

9.14 TEST EVENTS

TESTING TO ACHIEVE OPERATIONAL READINESS

Learning from recent experience, Rio 2016 will establish a comprehensive readiness and testing program. In recognition of the importance of this phase of the Games life cycle, an initial test event concept has already been developed, with test events planned from 24 to six months before the Games.

Competition test events

Rio 2016 will work with the IFs, the National Federations and the IOC and IPC to determine a program of events in all sports and disciplines in their Games-time venues, in Olympic and Paralympic format wherever feasible.

Following the advice and experience of previous organizing committees, the test event program will be organized in a number of 'clusters by time', including a 'super cluster' test conducted 12 months before the Games to load test the integration of certain functional areas.



SPORT AND VENUES

From the venues perspective, the schedule of test events will reflect the construction completion dates of the planned and additional venues that will be built specifically for the Games, as well as the availability of technology systems.

Further, the test event program will be used to optimize the early installation of temporary elements such as cabling that can remain in place through Games time, thus eliminating unnecessary and costly retrofit and re-installation. From the general infrastructure perspective, the test events will be planned to ensure that the public and Games Family transport systems are stressed and all operational plans integrating venues, transport and City operations are feasible for any working or weekend day during the Games.

Under the technical supervision of the IFs, test events will test the operational readiness of the venues, particularly the fields of play, technology and other Games management systems, the venue teams and the overall systems and procedures that will apply at Games time. They will also provide an invaluable opportunity to receive feedback from the IOC, the IPC, the IFs, the athletes and other clients. Furthermore, they will be incorporated into the Workforce Training and Development program for all related staff, volunteers and national technical officials.

Recognizing that testing is a key element of Games readiness, the test event program will be fully integrated within Rio 2016's overall planning and coordination life cycle. As such, the test event strategy will be developed before the 2012 Olympic and Paralympic Games, enabling the observation experience to be used as the basis for finalizing the test event program. The program will be made public within six months of IOC approval to assist with the overall promotion and publicity of the Games and its ticketing and communications campaigns.

A number of Paralympic sports test events will also be conducted.

Non-competition test events

A comprehensive testing program will be developed for non-competition venues including airports, the Olympic and Paralympic Village and the IOC Hotel. Events such as the ANOC General Assembly, World Broadcaster Meetings and Sponsor Workshops will provide the testing framework.

Functional testing

Functional testing, outside event mode, will supplement the competition and non-competition testing program, thereby ensuring the best possible assessment of readiness across the Games theater.

9.15 WORKFORCE

EXPERIENCED SPORT RESOURCES

Rio has an experienced and extensive sports event workforce as a result of the 2007 Pan American and Parapan American Games, in which more than 1,500 paid staff were involved directly in the Games organization and staging. In addition, this enthusiastic workforce will be boosted by the 2014 FIFA World Cup being staged in Brazil.



Hand-picked paid staff

The varied skill set required within the paid workforce will necessitate recruiting from diverse sources, including National Federations and relevant university programs. Meeting the technical requirements of positions as diverse as Competition Managers, Sport Presentation Announcers and Sport Services and Sport Publications staff is recognized and Rio 2016 will collaborate with IFs to ensure appropriate staff are identified.

To achieve the required professional level, Rio 2016 and the Governments will promote training and certification of professionals and volunteers in knowledge areas such as Sports Results. Specific training will be provided to enhance professional expertise in sports rules awareness, timing and results homologation and results technology. The recruiting strategies will align with the qualification criteria defined by each area of expertise and certifications.

Established volunteer culture

With the largest proportion of the sport workforce made up of volunteers, Rio 2016 will benefit directly from one of the key legacies of the 2007 Pan American Games: its volunteer program. More than 80,000 people applied to be volunteers and 14,000 were chosen to work under the Games Workforce Program *Força Rio 2007*. An additional 6,000 volunteers took part in the ceremonies.

Many of the sports volunteers were drawn directly from physical education colleges and sports schools, while others were experienced professionals from various fields including commerce, medicine and advertising. All were assigned to the most relevant areas. The program served to strengthen the value of non-paid community-based activities in Brazil such that since the Games, many volunteers have subsequently participated in other sports competitions or entered employment, demonstrating the value of sport as a tool for social transformation. Rio 2016 is confident that this trend will continue.

Rio 2016 has continued to communicate with all volunteers on the 2007 Pan American and Parapan American Games database to maintain their interest in volunteering for the 2016 Olympic and Paralympic Games and will provide the opportunity to register as a volunteer for 2016.

City-wide research to ascertain interest in becoming a volunteer for 2016 Olympic and Paralympic Games yielded very positive results, particularly from young adults in the State of Rio.

SPORT AND VENUES

Officiating: experience + opportunity

Many hundreds of technical officials, already with experience from the many international events hosted in Rio, were nominated by the National Federations to officiate at the 2007 Pan American Games, already possessing the necessary knowledge and experience from previous events and technically proficient to officiate at the international level. This experienced group will form the core of the national technical official workforce. Discussions have taken place with those National Federations whose sports are less developed in Brazil, and agreements reached to design training courses, observation and participation opportunities both in Rio and within South America, to increase the technical proficiency of these officials to the standard that will be required. Such training programs will focus not only on Brazilians but will also benefit technical officials in the South American region, leaving a legacy of trained and practically experienced officials throughout Brazil and the region.

9.16 SPORTS EXPERIENCE

HUNDREDS OF EVENTS,
THOUSANDS OF ATHLETES, YEARS OF EXPERIENCE

Brazil has a long heritage of hosting sporting events dating back to the 1950 FIFA World Cup. Over the last 10 years Brazil, and more specifically Rio, has consistently demonstrated its

capacity to host and conduct high level sporting events. These have included 35 World Championships nation-wide in a range of sports as diverse as Basketball, Judo, Sailing, Table Tennis and Volleyball, as well as many others. Furthermore, hundreds of other sporting events have been held at the Pan American and South American regional levels, with Brazil continuing to prove a popular destination for other international meets of lower levels. Only the major events have been included in Table 9.16 due to space limitations.

Most recently, Rio was host to the successful and widely praised 2007 Pan American Games (with more than 5,650 athletes competing in 34 sports) and Parapan American Games (with 1,300 athletes competing in 10 sports).

In 2011, Rio will host the 5th CISM Military World Games with projected attendances of 7,000 athletes from 100 countries participating in 24 sports. In 2013, it will host the 2013 FIFA Confederations Cup and, in 2014, the FIFA World Cup.

All these events have enabled a great amount of event knowledge and technical expertise to be developed, and enabled the creation of a culture of volunteerism, an extensive database of willing participants to assist in the conduct of such events and enthusiastic and educated sports spectators who consistently turn out to support the athletes of the world.



SPORT AND VENUES

TABLE 9.16 - SPORTS EXPERIENCE

DATE	SPORT	Event and level of competition	Location (city)
MULTI SPORTS EVENTS			
2007		XV Pan American Games	Rio de Janeiro
2002		VII South American Games	Rio de Janeiro / São Paulo / Belém / Curitiba
EVENTS IN OLYMPIC SPORTS			
WORLD CHAMPIONSHIPS			
2008	Athletics	IAAF World Half Marathon Championship	Rio de Janeiro
2008	Table Tennis	XIV ITTF World Master Championship	Rio de Janeiro
2007	Canoe/Kayak (Slalom)	ICF World Championship - Senior	Foz do Iguaçu
2007	Judo	25th IJF World Championship	Rio de Janeiro
2006	Basketball	FIBA Women's World Championship	São Paulo
2006	Cycling	BMX World Championship	São Paulo
2006	Handball	Beach Handball World Championship - Men and Women	Rio de Janeiro
2006	Aquatics (Swimming)	FINA Junior World Championship	Rio de Janeiro
2005	Volleyball (Beach)	FIVB World Championship - Men and Women Under 21	Rio de Janeiro
2004	Canoe/Kayak	ICF World Championship - Senior	Florianópolis
2004	Sailing	ISAF Finn World Championship	Rio de Janeiro
2003	Volleyball (Beach)	FIVB World Championship - Men and Women	Rio de Janeiro
2002	Football	FIFA Club World Championship	Rio de Janeiro / São Paulo
PAN AMERICAN			
2008	Handball	Pan American Championship - Men	São Carlos
2008	Handball	Pan American Junior Championship - Men and Women	Blumenau
2008	Hockey	Champion Club Pan American Cup	Rio de Janeiro
2007	Athletics	Pan American Junior Championships	São Paulo
2007	Volleyball	America's Cup	Manaus
2006	Badminton	Pan American Junior Championship	Campinas
2006	Cycling	Cross Country Pan American Championship	Camboriú
2006	Cycling	Road Pan American Championship	Indaiatuba
2006	Cycling	Track Pan American Championship	Caieiras
2006	Triathlon	Pan American Championship	Brasília
2005	Gymnastics (Artistic)	Pan American Championship - Men	Rio de Janeiro
2005	Boxing	Pan American Championship	Teresópolis
2005	Gymnastics (Rhythmic)	Pan American Championship	Vitória
2004	Shooting	American Continental Cup	Americana
2003	Boxing	Pre-Pan American Championship	Belém
2003	Aquatics (Diving)	Pan American Junior Championship	Belém
2003	Taekwondo	2nd Pan American Junior Championship	Rio de Janeiro
2002	Basketball	America's Cup	Ribeirão Preto
2002	Modern Pentathlon	Pan American Championship	Rio de Janeiro
SOUTH AMERICAN			
2008	Athletics	Athletics GP - South American	Uberlândia
2008	Equestrian	South American Championship - Junior and Youth	Rio de Janeiro
2008	Football	II South American Championship - Women Sub-20	Porto Alegre
2008	Shooting	South American Championship	Rio de Janeiro
2008	Aquatics (Swimming)	CONSANT South American Championship	São Paulo
2008	Aquatics (Water Polo)	South American Championship - Men and Women	São Paulo
2007	Athletics	South American Championships	São Paulo
2007	Modern Pentathlon	South American Championship - Open	Rio de Janeiro
2006	Canoe/Kayak	South American Championship - Junior and Youth	São Paulo
2005	Rowing	South American Championship	São Paulo
2004	Athletics	Cross Country South American Championship	Rio de Janeiro
2004	Basketball	South American Championship	Campos
2004	Equestrian	South American Championship	São Paulo
2004	Judo	South American Championship	Rio de Janeiro
2003	Aquatics (Synch. Swimming)	South American Championship - Junior	João Pessoa
2002	Gymnastics (Artistic)	VII South American Games	Curitiba
2002	Sailing	Star South American	Rio de Janeiro
2002	Aquatics (Swimming)	CONSANT South American Championship - Absolut	Belém
2001	Badminton	South American Championship - Junior	Rio de Janeiro
2001	Aquatics (Diving)	South American Championship	Rio de Janeiro

SPORT AND VENUES

TABLE 9.16 - SPORTS EXPERIENCE

CONTINUED

DATE	SPORT	Event and level of competition	Location (city)
INTERNATIONAL MEETS			
Annual	Badminton	Brasil Cup	São Paulo
Annual	Cycling	Intenational Americas Cup	Rio de Janeiro
Annual	Cycling	MTB International Cup	Minas Gerais
Annual	Cycling	9 de julho International Cycling Race	São Paulo
Annual	Athletics	Brasil Grand Prix	Belém / Rio de Janeiro
2008	Athletics	Athletics GP - Rio de Janeiro	Rio de Janeiro
2008	Shooting	World Cup Rio de Janeiro	Rio de Janeiro
2008	Aquatics (Swimming)	World Cup	Belo Horizonte
2007	Gymnastics (Artistic)	BRA X CAN X GBR International Tournament	Natal
2007	Equestrian	International Eventing	Minas Gerais / Porto Alegre
2007	Football	2010 World Cup Qualifier	Rio de Janeiro
2007	Rowing	Olympic Continental Qualification Regatta	Rio de Janeiro
2007	Sailing	Rio de Janeiro International Week	Rio de Janeiro
2007	Table Tennis	XVII Latin American Championship	Guarulhos
2007	Tennis	Davis Cup	Florianópolis
2006	Gymnastics (Artistic)	World Cup Finals	São Paulo
2006	Athletics	III Athletics Grand Prix - Rio de Janeiro	Rio de Janeiro
2006	Equestrian	International Eventing	Rio de Janeiro / São Paulo / Minas Gerais
2006	Shooting	World Cup Resende - Rifle and Pistol	Resende
2006	Tennis	Davis Cup	Belo Horizonte
2006	Volleyball	World League	Belo Horizonte / Brasília / Fortaleza
2005	Volleyball (Beach)	World Tour - Men and Women	Salvador
2005	Aquatics (Swimming)	World Cup	Belo Horizonte
2005	Tennis	Davis Cup	Joinville
2004	Gymnastics (Artistic)	World Cup	Rio de Janeiro
2004	Modern Pentathlon	World Cup	Rio de Janeiro
2004	Aquatics (Water Polo)	Water Polo Olympic Qualifier Tournament - Men	Rio de Janeiro
2002	Volleyball (Beach)	World Tour - Women and Men	Vitória / Fortaleza
2001	Equestrian	South American Championship - Junior and Youth	São Paulo
2001	Football	World Cup Qualifier	São Paulo / Porto Alegre
2001	Volleyball	World Championship Qualifier	São Caetano
2000	Athletics	Ibero American Championship	Rio de Janeiro
2000	Triathlon	World Cup ITU Triathlon Copacabana	Rio de Janeiro
EVENTS IN NON-OLYMPIC SPORTS			
WORLD CHAMPIONSHIPS			
2008	Futsal	FIFA Futsal World Cup	Rio de Janeiro / Brasília
2003	Baseball	World Championship - Boys Junior League	Ibiúna
2000	Baseball	I World Championship - Boys	Ibiúna
PAN AMERICAN			
2007	Squash	17 th Pan American Championship	Rio de Janeiro
2000	Squash	10 th Pan American Championship	Belo Horizonte
1999	Karate	X Pan American Championship - Junior and Youth	São Paulo
SOUTH AMERICAN			
2008	Rugby	South American Championship - Men	São José dos Campos
2007	Golf	South American Championship - Junior	Rio de Janeiro
2005	Baseball	South American Championship	São Paulo
2005	Karate	South American Championship	Recife
2004	Golf	South American Championship - Pre Junior	São Paulo
2004	Rugby	South American Championship - Men	São Paulo
2002	Golf	South American Championship	Rio de Janeiro
2002	Rugby	South American Championship - Men	Rio de Janeiro
INTERNATIONAL MEETS			
2007	Squash	City Open	Rio de Janeiro
2006	Rugby (Sevens)	São Paulo Internacional Rugby Sevens	São Paulo
2006	Squash	Companion Open	São Paulo
2005	Golf	Brasil Open	Costa de Sauípe
2005	Rugby	Rugby World Cup Qualifier	São José dos Campos
2004	Rugby (Sevens)	São Paulo Internacional Rugby Sevens	São Paulo
2004	Squash	São Paulo International	São Paulo
2003	Golf	Brasil Open	São Paulo
2000	Golf	Brasil Open 500 Years	Rio de Janeiro