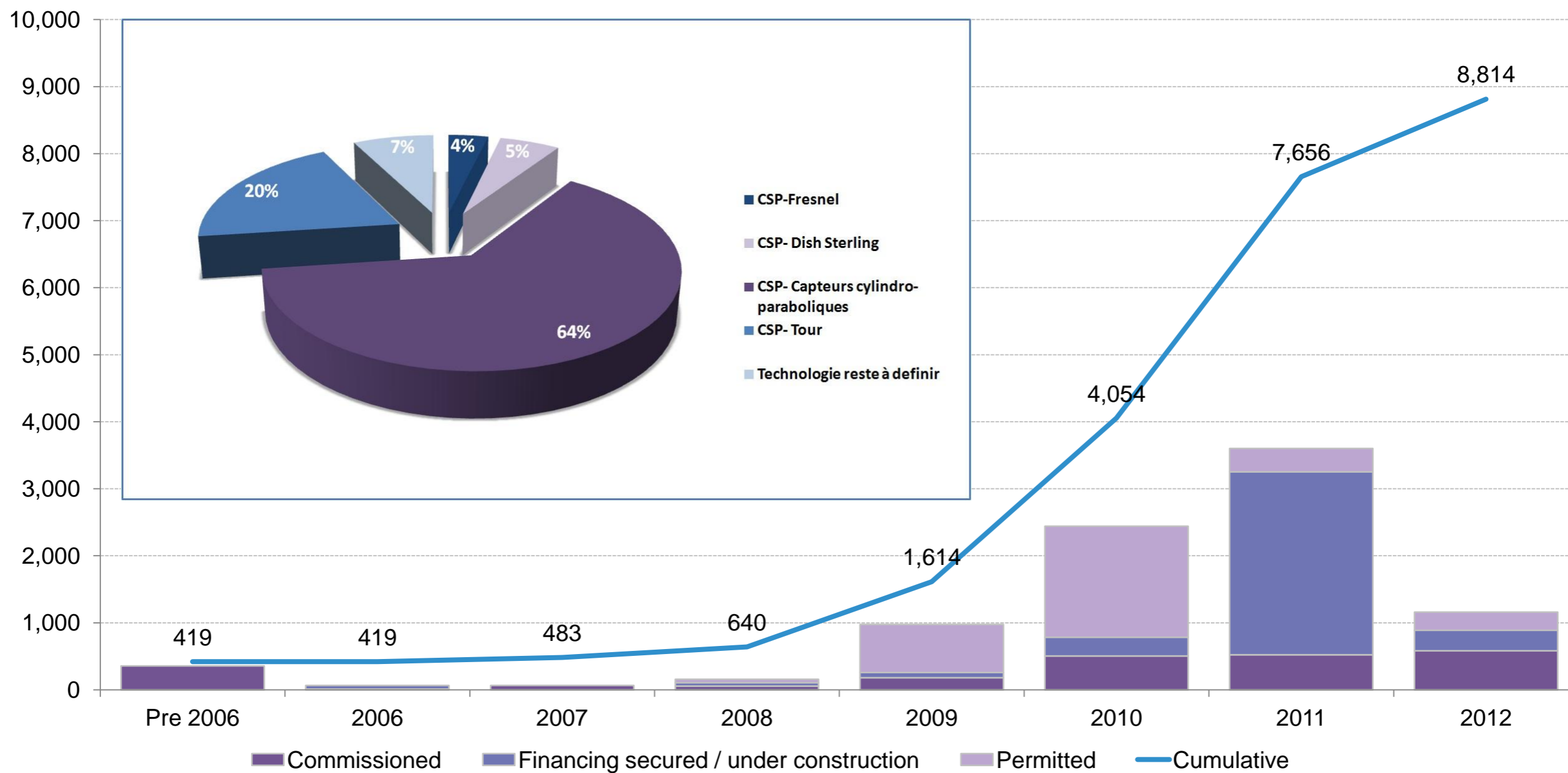


Moroccan Solar Plan

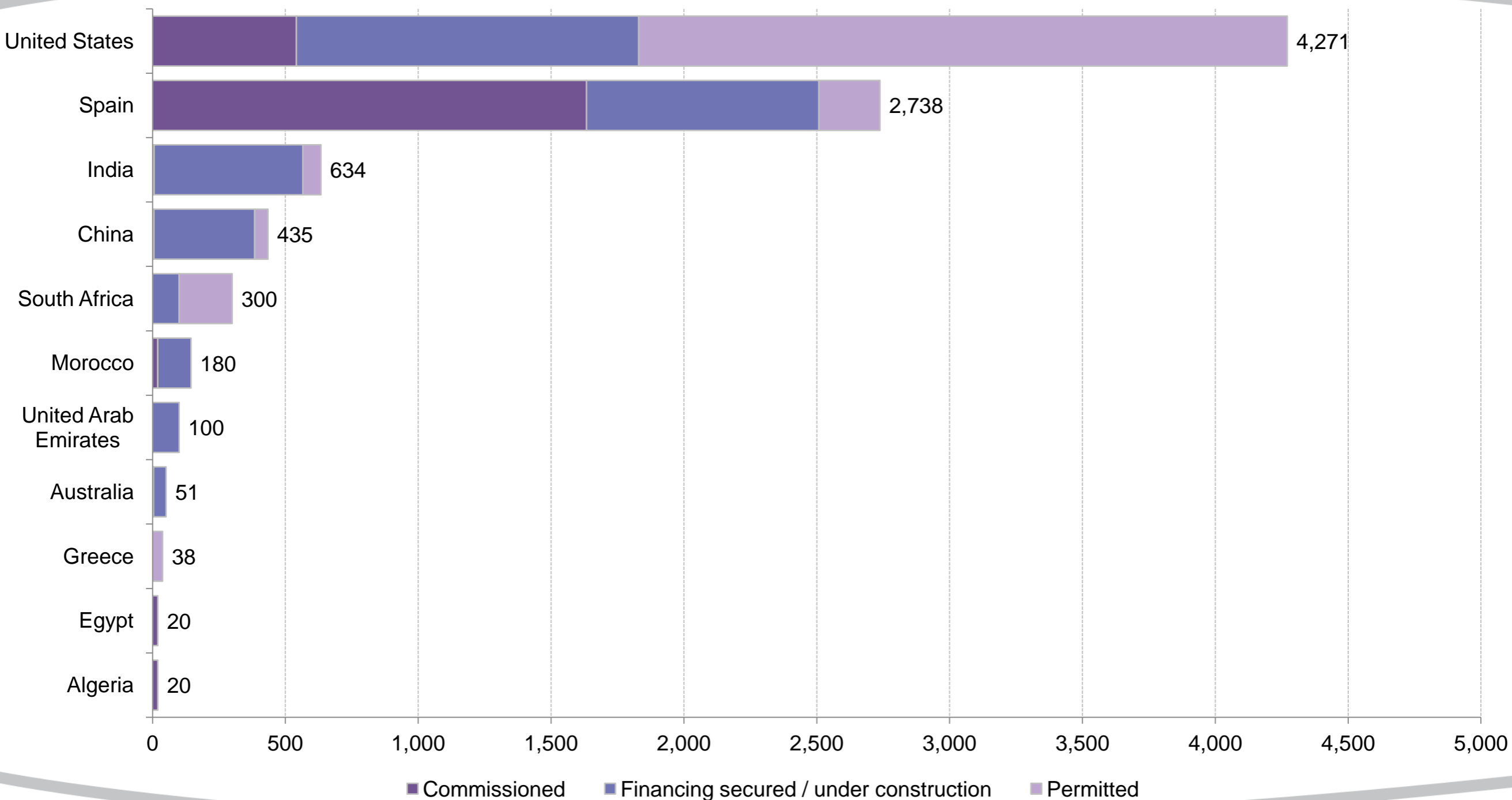
māsen
Moroccan Agency
for Solar Energy

Status of the CSP Market Development – S1 2012



Source: Bloomberg New Energy Finance

Status of the CSP Market Development Country – S1 2012



Source: Bloomberg New Energy Finance

The Moroccan Solar Plan

MIN Capacity

2 000 MW

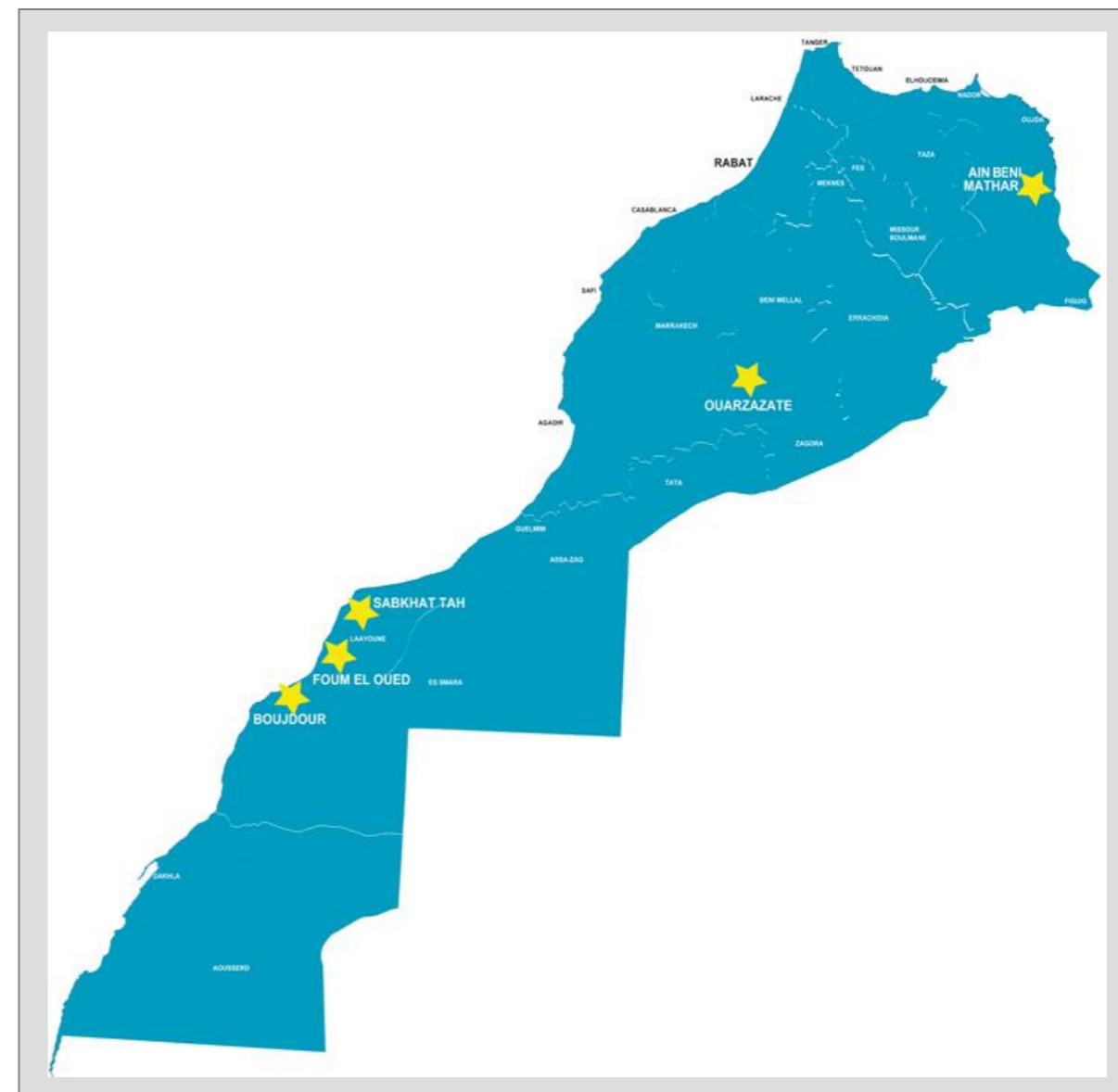
Deadline

2020

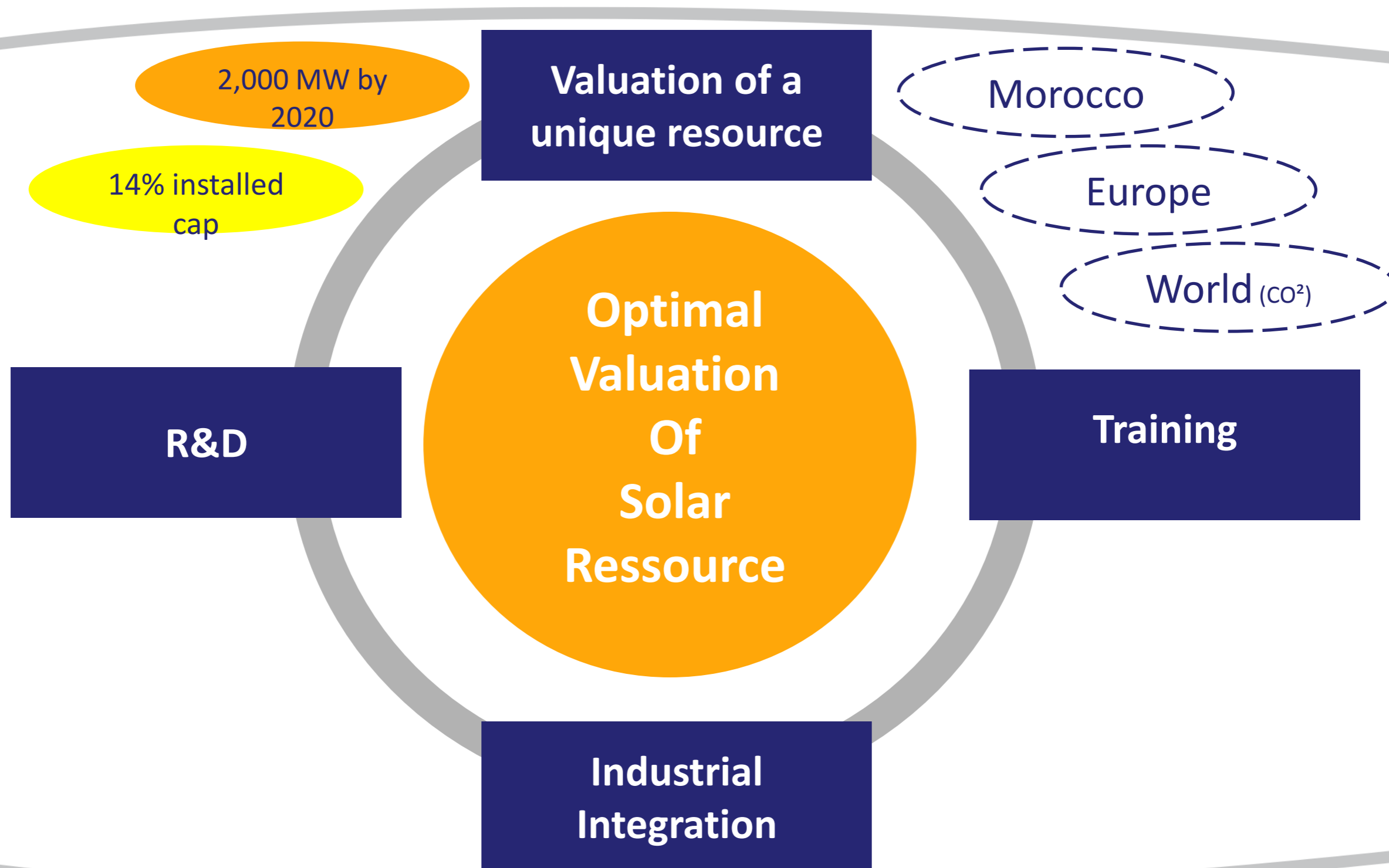
5 sites defined

Sites	Capacity in MW
Ouarzazate	500
Ain Beni Mathar	400
Sebkha Tah	500
Foum El Oued	500
Boujdour	100

5 sites defined



An Integrated and Multi-dimensional Vision



Masen, in charge of the Moroccan Solar Plan

Purpose

Lead the development of integrated solar projects of 2 000 MW or more by 2020
(utility-scale solar power production, local industry development, R&D, training)

Legal form :

Joint stock
created in March 2010

Governance :

Management Board and
Advisory Board

Capital share allocation:

500 000 000 dirhams
State, ONE, Fonds Hassan II et SIE
(equally)

A clear Institutional Framework, supporting Masen action

Framework State-MASEN (decree)

Modalities, technical requirements and financial balance **guarantee** for each project throughout the realization of the solar plan

Framework State-ONE-MASEN

- Rules and terms **guaranteeing** purchasing, transporting, and commercializing the electric power produced

Ouarzazate Solar Complex, operational priority for Masen

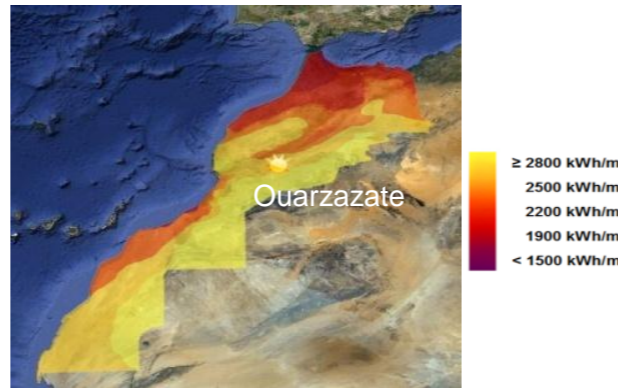
Virtual aerial view for the Ouarzazate Solar Complex



Ouarzazate Complexe (OZZ1), multi-phases et technologies

Ouarzazate complex

500MW
By 2015



Operational priority

Phase 1 :
125 – 160 MW

Multiple phases

★ Phase 1 : entre 125 MW et 160 MW

Phase 2

Phase ...

Technology Agnostic

● Concentrated Solar Power/
Parabolic Trough

CSP (Parabolic Trough, Tower...)

Photovoltaic

+

R&D Platform dedicated to solar technologies

Common infrastructure buildup under way

★ Tender final steps underway

OZZ Project key milestones

Structured approached....

Initial studies

For the entire site including most key topics

Technical Configuration

According to best international practices

Institutional and financial structure

Innovative to reduce costs

Selection process

with intense competition

Industrial integration

Maximise Economic Effects

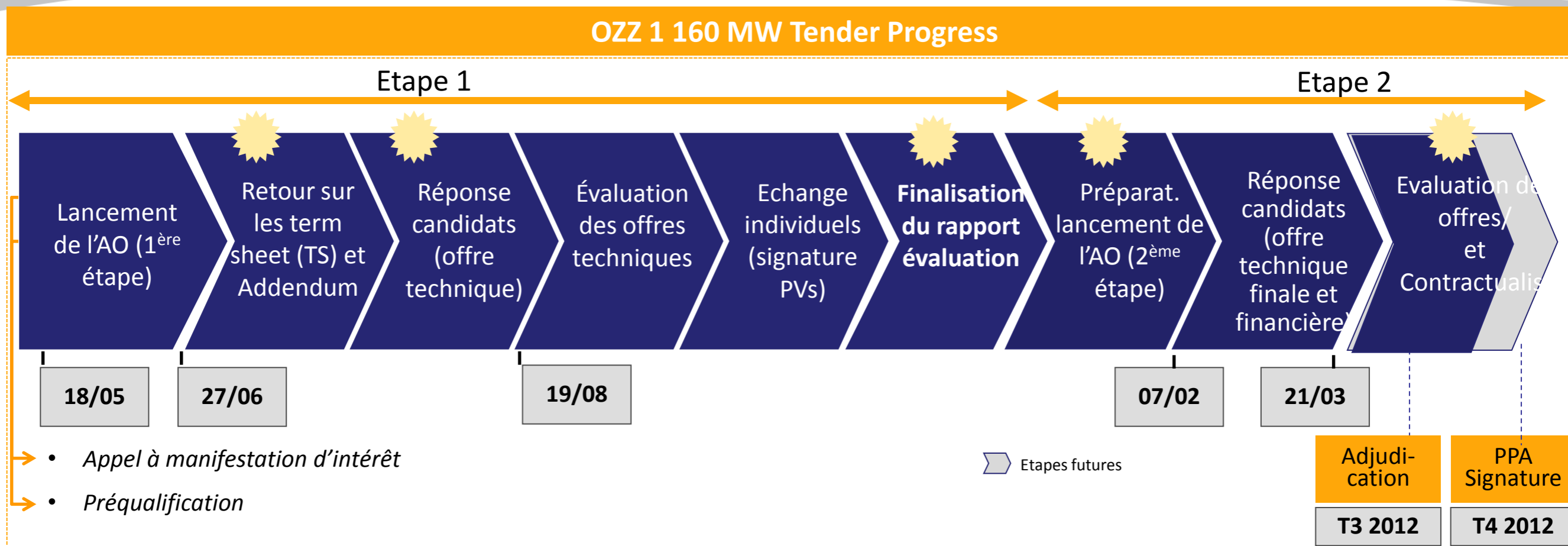
Site infrastructure

Improve visibility and optimize risks for developers

...with initial results in OZZ1, despite current economic climate

- **Strong participation of most major global market players, present in different parts of the value chain**
- **Bidders Engagement to maximise local industrial value and job creation from the first project**
- **Competitive offers, demonstrating Morocco's attractiveness for solar power projects.**

OZZ 1, tender finalisation in Q3 2012



3 consortia still competing

Membre Leader	Abeinsa	ACWA	ENEL
Membres Opérationnels	Abengoa Solar, Mitsui, Taqa	Aries Ingenieria y Sistemas, TSK Electronica y Electricidad	ACS Servicios Comunicaciones y Energía

Avis de Non Objection des IFIs

Next phases for OZZ complex

Planning for the remaining capacity (350 MW)

CSP

300 MW

Pre-qualification process launch by end of 2012

Including CSP Tower

To be defined

Pre-qualification process launch by end of 2012

PV

50 MW

Following CSP

Solar projects, development lever for remote regions

OZZ solar complex, first actions Masen undertook to maximize socio-economic impact in region of power project development

Key actions undertaken

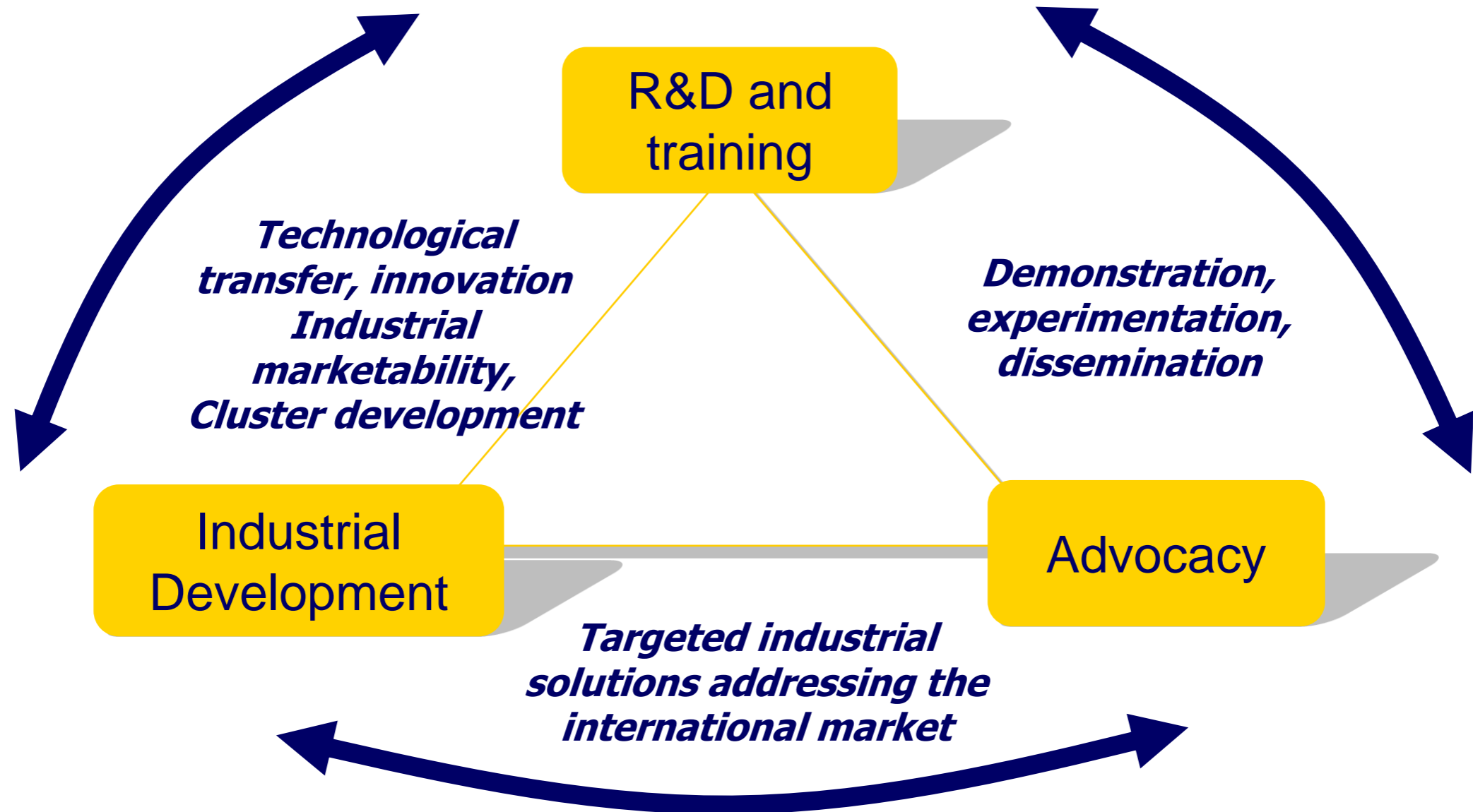
Preparing an inclusive sustainable development pamphlet for the ongoing and the upcoming power project and common infrastructure tenders with special attention to local employment and the strengthening of regional capacities

Conducting initial studies on supporting local villages (roads, potable water, waste management...) and overall investment inclusive of relevant infrastructures

Implementing comprehensive program for the region, in partnership with the relevant local authorities and regional/national institutions

Several volunteer and socially responsible actions for the region (equipping and setting up solar panels for an orphanage, educating local students on sustainable development,...)

Increasing local content and developing a targeted industrial capacity for the international market



North and South Mediterranean Integration

International

Worldwide interest and European leadership
(public institutions, industry players, market development professional associations...)

Favorable regulatory framework:

- % REN by 2020: 20%
- Article 9, in favor of energy cooperation with non EU countries

Uncertainty in regards to European countries to meet the 2020 objective (subsidy reduction, infrastructure costs....)

Optimize solutions to meet European needs

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National

Intrinsic assets

Solar Irradiation

Well-suite land

EU Proximity

Country maturity in establishing PPP and in delivering large-scale industrial development projects

Existing interconnexions :

+ Morocco – Spain

+ Maroc – Algeria

Strong assets for the production and the transmission of solar electricity

Raising awareness for more solar adoption and well-suited sustainable support mechanisms...





Thank you for your attention

māsen
Moroccan Agency
for Solar Energy