Inputs/Resources
People, budget, equipment, supplies, facilities, schedule, partners, information, etc.

Which are used to engage in →

Activities
Programmatic Strategies
Actions, planning, developing, implementing, marketing, administrating, etc.

Which are designed to produce →

Outputs
Products & Participation
Immediate results created by actions.

Which are for specific →

Audiences
Those who are directly impacted through participation in products/services

Who achieve/demonstrate →

Short-Term Outcomes
Change in knowledge, interest, skills, attitudes, intentions to act…

During/Immediately after creating or attending the BCD Event

Medium Term Outcomes
Change or sustained change in knowledge, interest, skills, attitudes, or behavior…

In weeks, months, years following a BCD Event

Long-Term Outcomes
*Long-range change you seek to achieve due to participation in the program, but also influenced by many contextual factors and life experiences. The Mission of a Program or Initiative**

Inputs/Resources

Leadership / Core Team
- Interdisciplinary PIs – science experts (different disciplines); technology experts; immersive / storytelling experts
- Project Manager

Technology
- Domes / Immersive technologies
- Uniview (with assets and limitations)

Content
- NOAA data
- Other data sources

Pedagogy
- TPCK Framework
- See, Know, Do Framework

ISI Partners
- 8 Planetariums/ Institutions with interest and motivation
- Skill in delivering live presentations

Financial Resources
- NOAA Funding

External Context/Factors
- Resilience Movement

Activities

Process at each site – Guided by Core Team and PIs at every step of process:

Story Definition
- ISI point-person decides bioregional story/need for community – in consultation with Team
- ISI and Team define local-level objectives for BCD event.

Partnership Building
- Team & ISI create short list of relevant individuals / institutions (NGOs, scientists, etc.) to serve as Advisors
- Team & ISI create an advisory group from short list to collaborate on story and BCD event

Creating the Story
- Team identifies data to exemplify story; Team creates needed visualizations
- Weekly calls to develop story, including ISI and Team members
- Advisors periodically engaged to review, provide feedback
- Iterative, dialogue process between ISI, Team, Advisors

Event Planning / Delivery
- Team/PM lead; ISI support to plan
- Team, Advisors, (ISI??) create "Guest List"
- Presenter may be a Team PI or may be from ISI
- Someone from Team at every event to support

Professional Development
- Mainly via 1:1 mentoring, as-needed tutoring (i.e., technology) by Team/PIs during BCD development
- Listserv to share content links/info
- Presenting a BCD again via webinar with additional commentary from PIs

Outputs

Products:

Digital Assets
- Earth science layers
- Google Drive: templates & resources for storiy-creation
- Partner website
- Public website

Visualizations
- Coupled human-natural systems
- Focus on leverage points to address problems
- Solutions-oriented
- Systems-based
- Innovative
- Artistry

BCD Events
- Story & visual-izations in dome
- Live presentation
- Cosmic – Global – Local narrative
- Optional: post facilitated aud dialogue

PD Products
- Webinar re-presentation of BCD

Participation
- # ISIs / professionals
- # NGO Advisors in development phase
- # event attendees from each audience

Audiences

ISI Professionals
- Staff / Managers of dome / planetariums
- Institutions w/ dome facilities

Influential Public
Advisors
- NGO / Community professionals w/ knowledge, interest stake in topic

Event "Guest List"
- Community decision-makers, influencers, innovators, knowledge-workers with relevant sphere of influence

Interested Public
- In the ISI / Planetarium
- In the Advisors

Short-Term Outcomes

ISI/Planetarium Professionals will…
- Increase skills using technology of dome, creating visualizations
- Increase content knowledge of biology / local ecological issues
- Increase ability to deliver a presentation about Earth
- View domes as a tool to communicate about issues, not just content [attitude]
- Interest in doing more programming to address ecological issues
- View Advisors as important community resources
- Enjoy working w/ Team and Advisors in development process

Advisors will…
- View ISI as important community resource for addressing ecological issues [attitude change]
- Enjoy working w/ ISI in production process
- Demonstrate interest in collaborating with the ISI again in the future

Influential Public attendees will…
- Increase awareness of core ecological content [environmental literacy]
- Have a positive affective (emotional) response – awe, inspiration, amazement
- Understand new relationship(s) of ecological problem to larger systems
- Identify opportunities/roles that they can engage in or initiate solutions

Interested Public will..
- Increase awareness of core ecological content [environmental literacy]
- Have a positive affective (emotional) response – awe, inspiration, amazement
- Understand new relationship(s) of ecological problem to larger systems
- Gain awareness of a community resource working to address the ecological problem

Medium Term Outcomes

ISI/Planetarium Professionals will…
- Give new/more public presentations about Earth in their dome (independently of Team-facilitated BCD)
- Increase the proportion of live (vs. auto-run) presentations in dome programming
- Collaborate again with an Advisor and/or Influential Public attendee

Advisors will…
- Collaborate again with ISI
- Collaborate with one of the Influential Public attendees/organizations on an initiative related to the BCD event

Influential Public attendees will…
- Collaborate with ISI
- Collaborate with another Advisor organization
- Engage with an initiative related to the BCD event

Interested Public will…
- Engage with an initiative related to the BCD Event topic by seeking more information or actively getting involved

Long-Term Outcomes

Over time, **Worldviews Network** seeks to contribute to large-scale changes in how individuals and society deal with environmental challenges, and in how Planetariums / ISIs take a central role in facilitating that new landscape.

Planetarium Field:
- Earth-focused programming becomes a mainstay of public programming and mission
- Local, place-based, Earth-systems issues become guiding principle for storytelling
- Commit to self-sustained ongoing, community engagement
- ISIs are viewed as a core trusted "place to go" for multi-disciplinary dialogue about ecological issues and solutions

Individuals:
- Increase capacity for and comfort with complex thinking
- Develop a new worldview grounded in understanding of coupled human-natural systems

Society:
- Uses ongoing, cross-disciplinary collaboration in service of addressing socio-ecological problems from a systems perspective.
- Fosters a spirit of opportunity and engagement around environmental challenges
- Identifies new indicators for value in society (i.e., not solely production/consumption GNP)

Time-scale is many years, extended time. Not usually measured, but depicts the reason you do this.