Welcome
to the
SacPAS Workshop!



Lisa Elliott[1] & Jennifer L. Gosselin[2]

1 BUREAU OF RECLAMATION

2 SacPAS CENTRAL VALLEY PREDICTION AND ASSESSMENT OF SALMON

UNIVERSITY of WASHINGTON

Welcome! Outline:

I. Who is at the Workshop?

II. SacPAS: Background & Approach

III. Workshop Goals



I. Who is at the workshop?

- > 30 affiliations
- Federal agencies
- State agencies
- Water and irrigation districts
- Consultants
- Non-governmental agencies
- Universities

















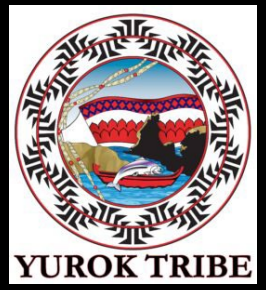






















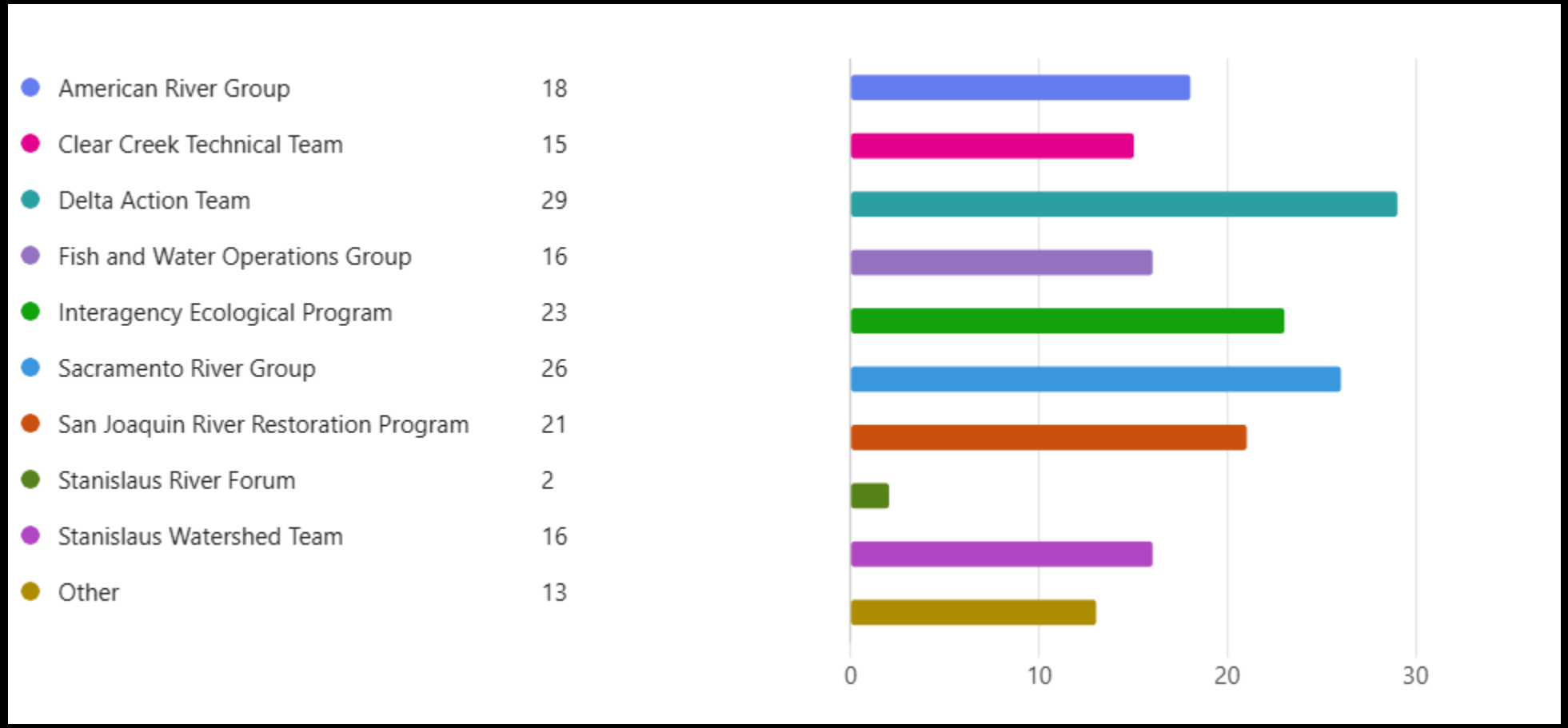






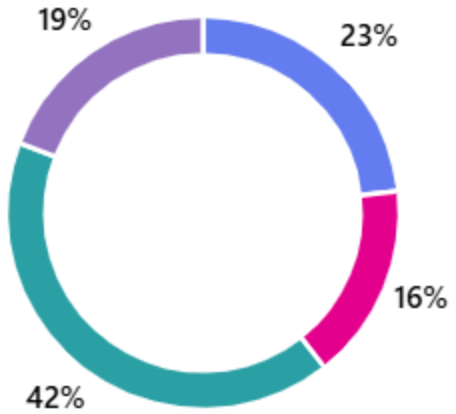


Which group(s) are you involved in?

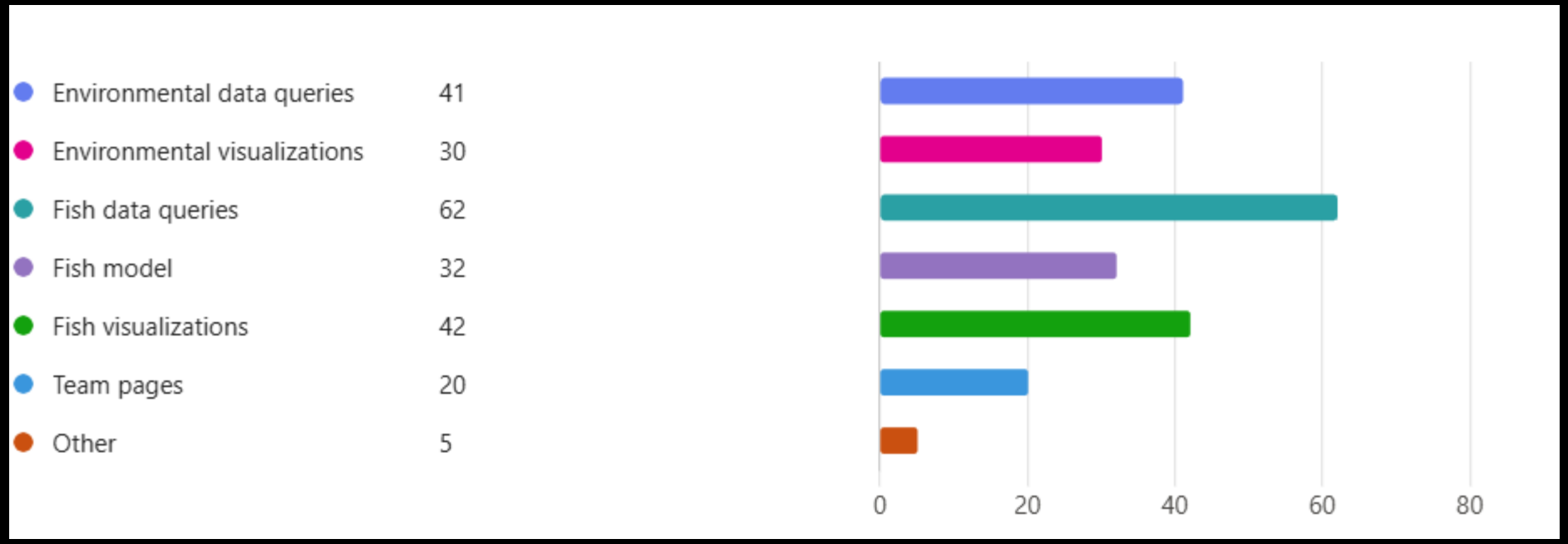


How often do you use SacPAS?

Regularly	23
During management season	16
Once in a while	41
Never	19



Which features are most useful?



II. SacPAS: Background & Approach



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Background & Approach of our research center



COLUMBIA BASIN RESEARCH

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History & Approach of CBR

- Three decades ago,
  Prof. Anderson and Skalski
  started Columbia Basin Research



JAMES J. ANDERSON
CBR Co-Founder



JOHN R. SKALSKI
CBR Co-Founder

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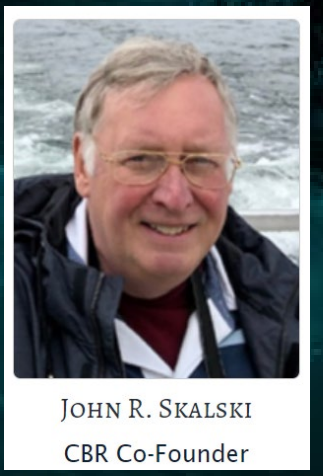
History & Approach of CBR

- Three decades ago,
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- Provide practitioners easy access to
  data, info, and analytical methods,
  for in-season fish & river management
  meetings.



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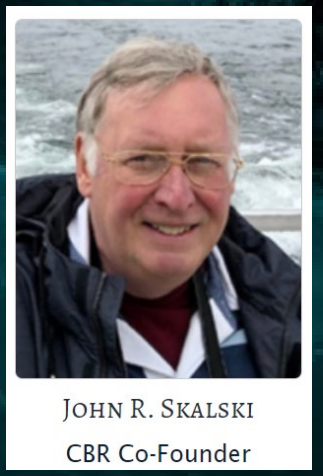
- Provide practitioners easy access to
  data, info, and analytical methods,
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  meetings.

- That is what we continue to strive to provide:
  - Access to data
  - Value-added visualizations
  - Statistical & modeling tools

  Customized to the needs of the users.



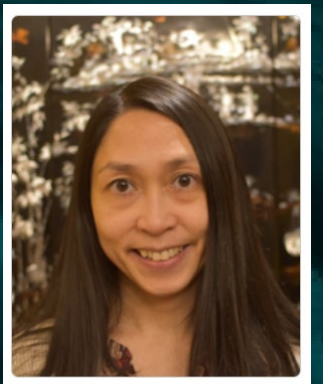
James J. Anderson
CBR Co-Founder



John R. Skalski
CBR Co-Founder

Anderson /
Gosselin Lab

Skalski /
Buchanan Lab



Jennifer L. Gosselin
CBR Co-Director



Rebecca A. Buchanan
CBR Co-Director

SacPAS
CENTRAL VALLEY PREDICTION AND ASSESSMENT OF SALMON

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Columbia Basin Research

Search SacPAS...

Data & Alerts | Workgroups & Teams | Tools & Models | Explore in Depth | About



Access

Data and decision support tools on fishes and environmental conditions

Research

Fish survival and migration models, presentations, and publications

Connections

Collaborators, practitioners, stakeholders, students, knowledge, and experiences









CVP/SWP Drought Contingency Biological Monitoring Plan for WY15 and Beyond

iii. Data Collection, Distribution, and Analyses

1. Increasing Data Accessibility

Data, especially data utilized for real-time operations and management decisions, should be centrally located and easily accessible to all who are interested. Efforts, such as the California Fish Tracking Consortium and the California Data Exchange Center should be coordinated to house (or provide links to) all data sources. Data currently downloaded onto websites could easily link to the hub, and those data that are currently disseminated via e-mail distribution lists should be input or linked to the internet data hub. An example of an internet data hub is the Columbia River Data Access in Real Time (DART), which provides data associated with the Federal Columbia River Power System. The average annual operation costs for the DART website and database are approximately $393,000 per year. An IEP workgroup will collaborate on defining a web location for data uploads, most likely using an existing web platform for 2015.

Mission with Three Main Collaboratory Components

Provide web-based services to link data and science to in-season management.

1. **Database**
2. **Web-based visualization and analysis tools**
3. **Fish survival and migration management models**



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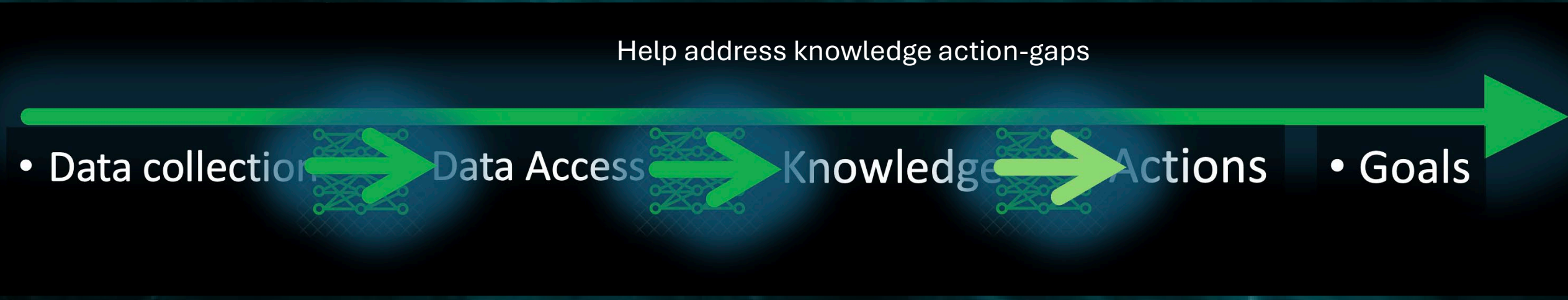
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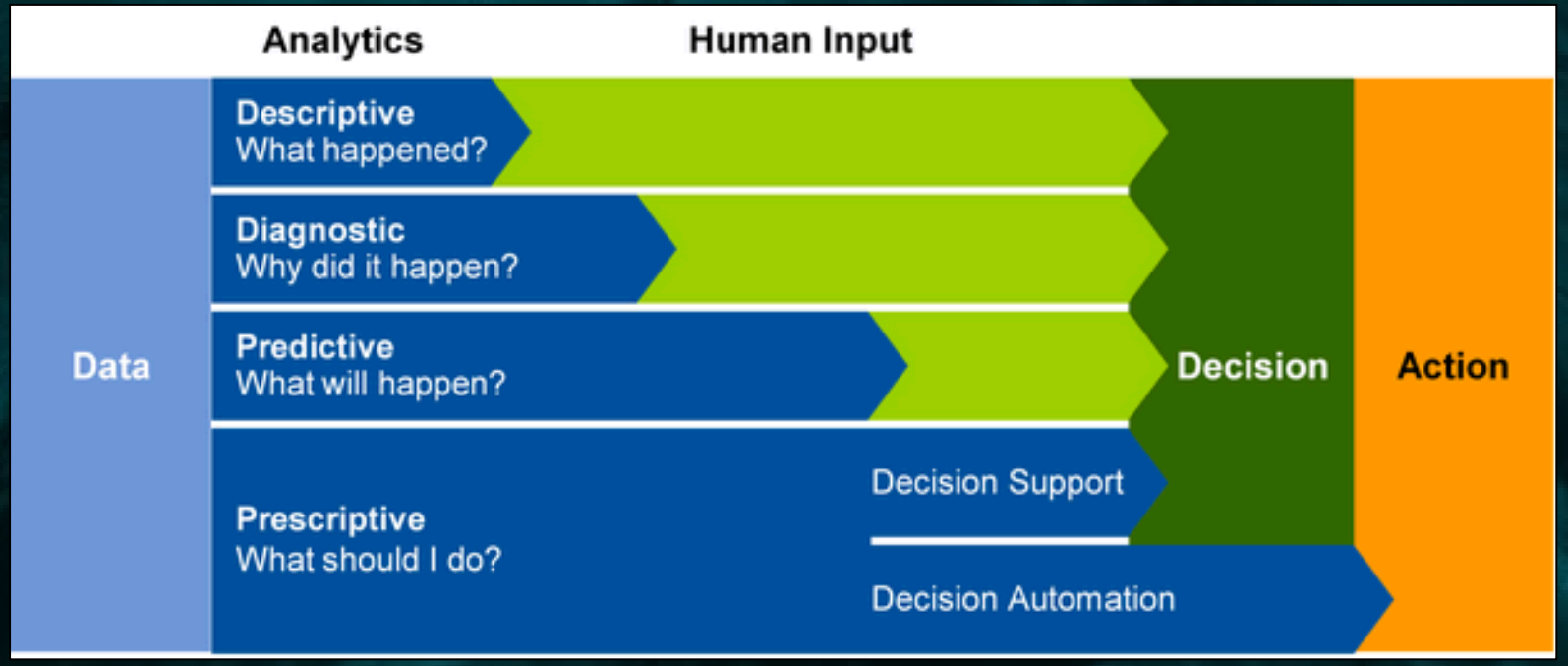


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Increasing toward automation from Data to Action at each step



Gartner (2013)

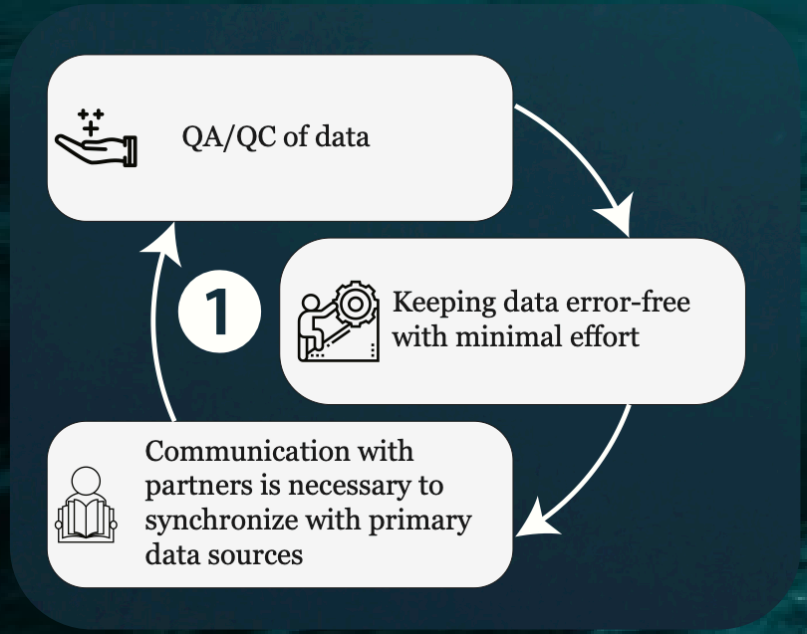
Approach: iterative processes related to…

(our day-to-day work)

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Approach: iterative processes related to…

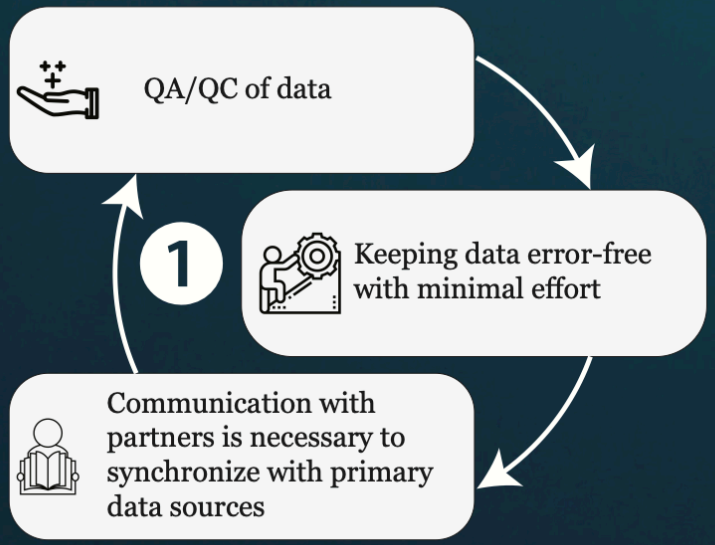
QA/QC of Data:



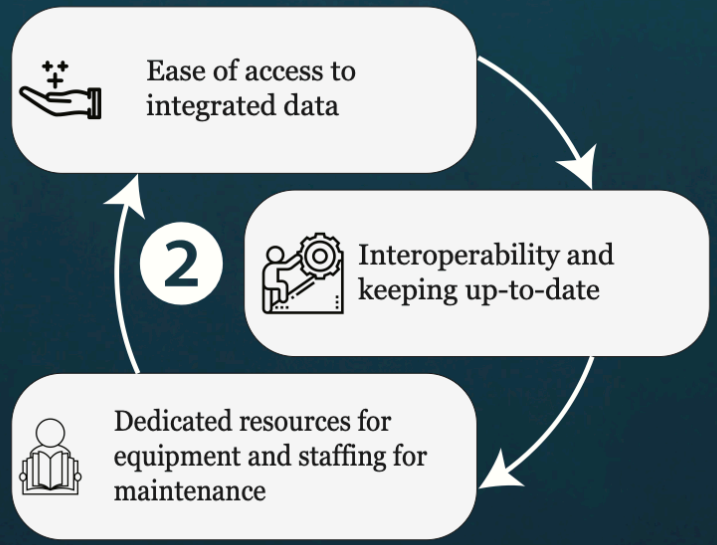
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Approach: iterative processes related to…

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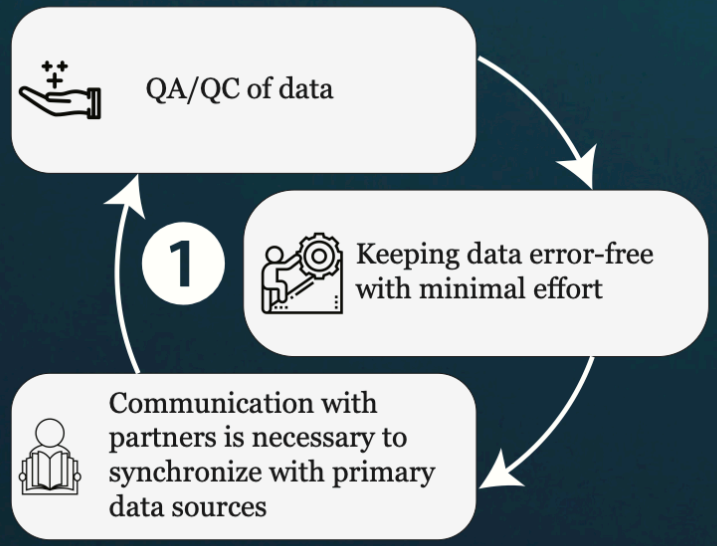
Access to Data:



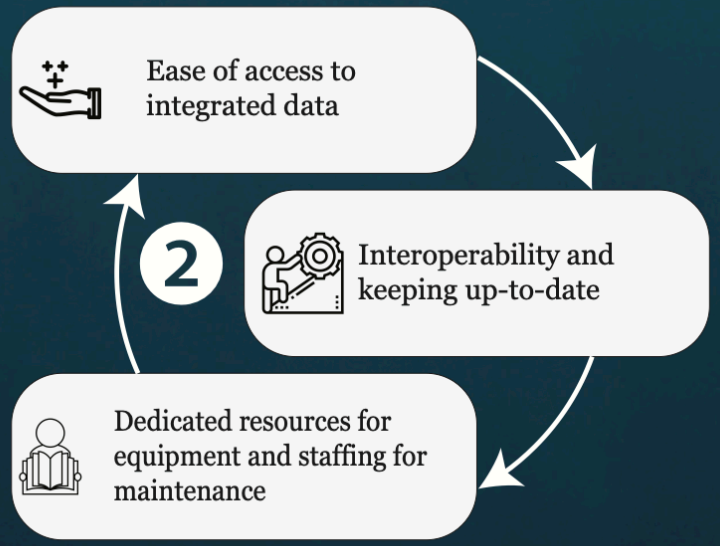
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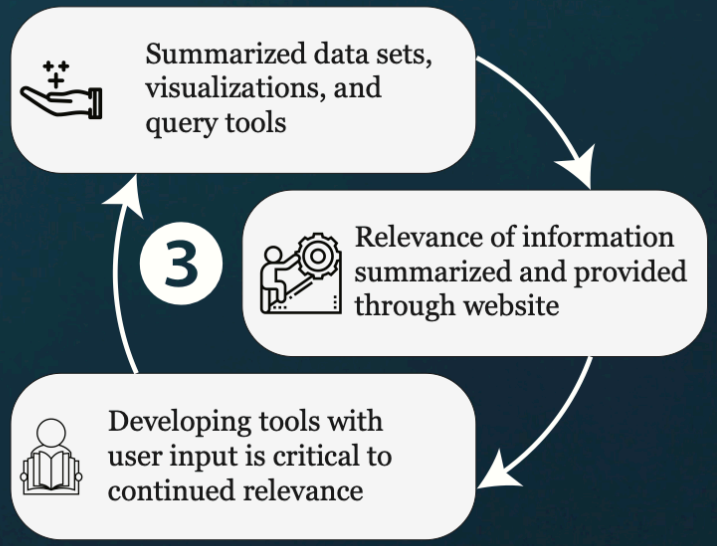
QA/QC of Data:



Access to Data:



Customized Query Tools:



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Approach: iterative processes related to…

(broader context)

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Design Thinking



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Design Thinking

1. Understand & Empathize
2. Explore & Ideate
3. Test & Implement

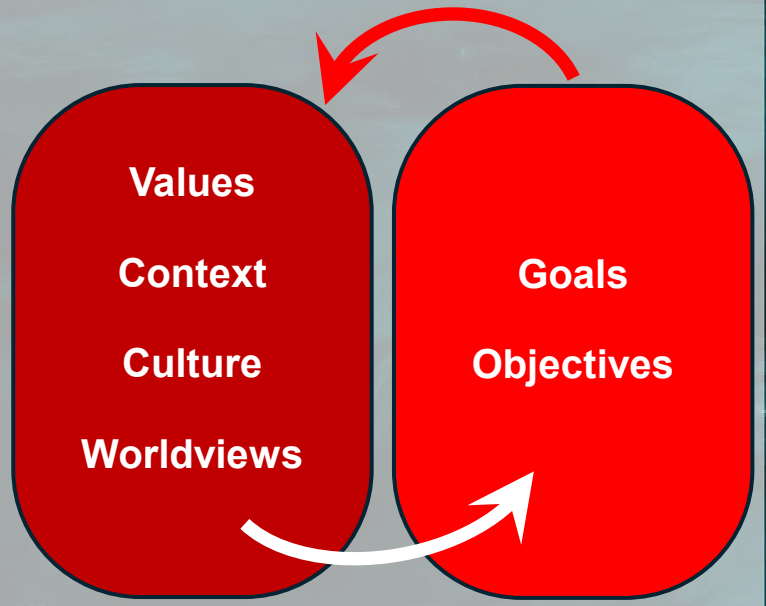
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Design Thinking

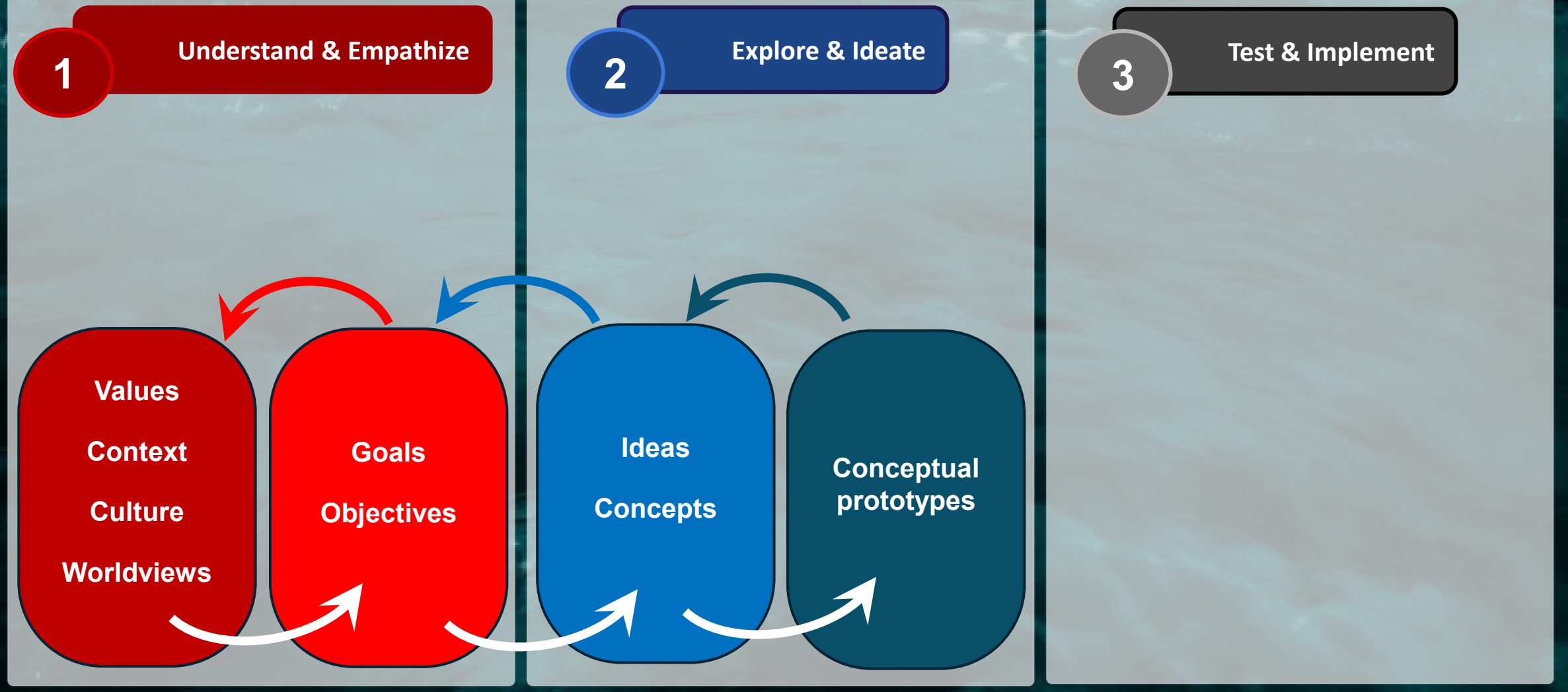
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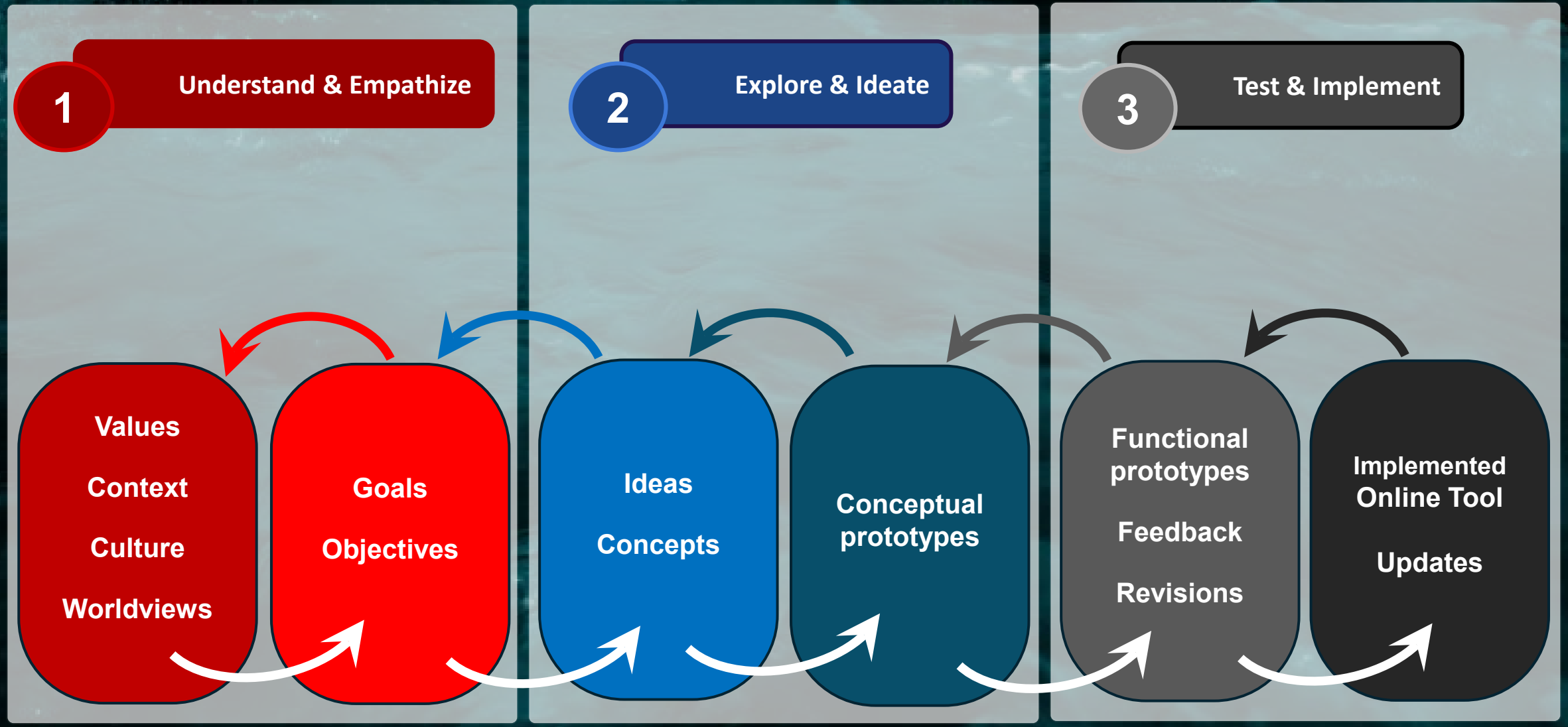
3 Test & Implement



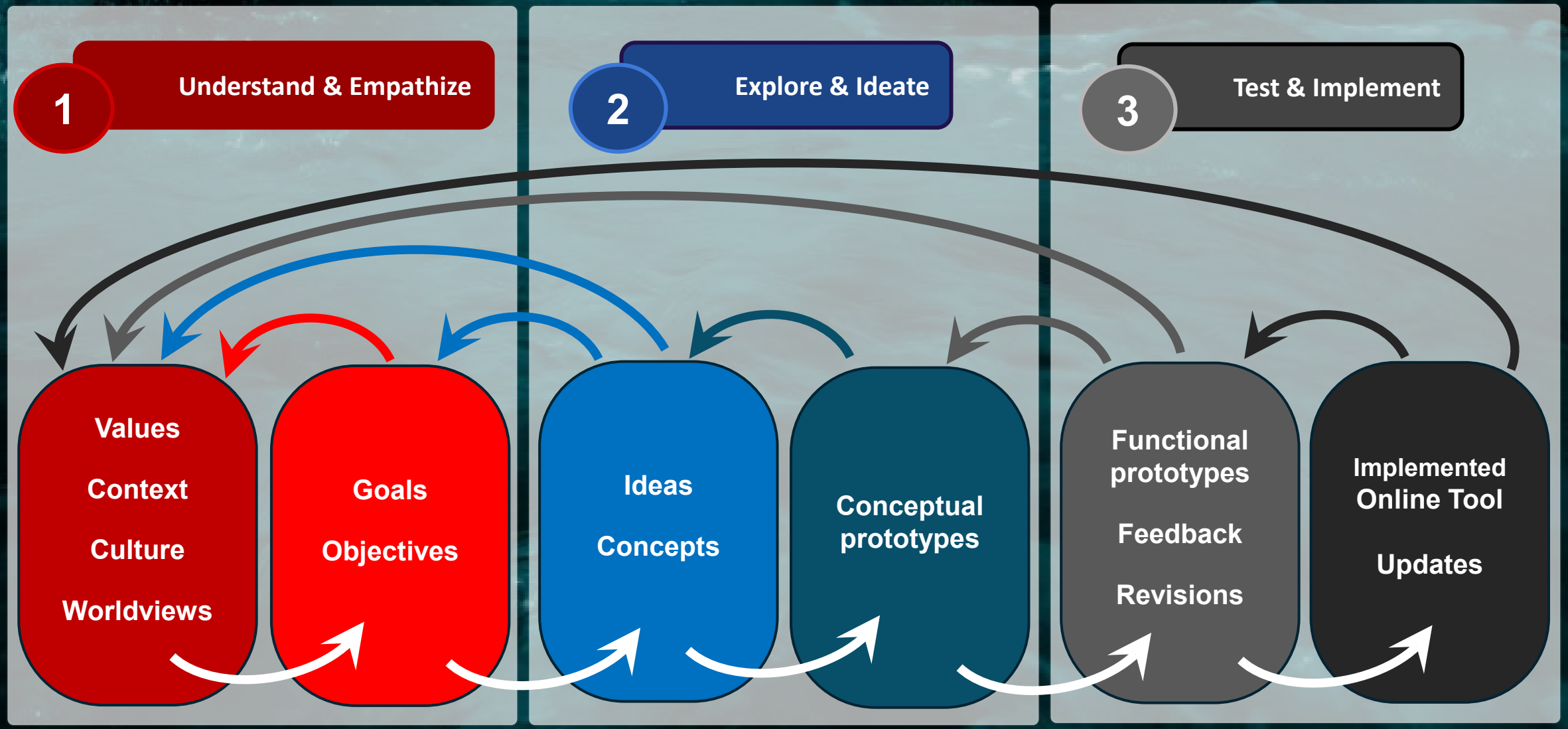
Design Thinking



Design Thinking



Design Thinking



III. SacPAS Workshop Goals



- Raise awareness of SacPAS tools available
- Refine tools with a better understanding of needs
- Receive new tool requests to be developed

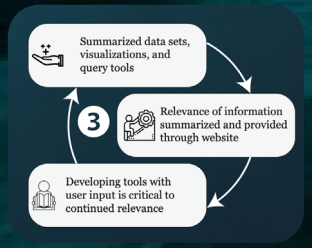
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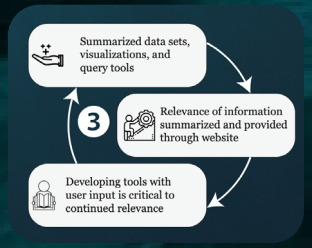


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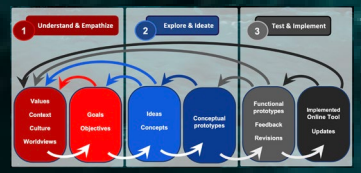
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Questions?
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RECLAMATION

IV. SacPAS Workshop Agenda

- AM Session 1: Data & Alerts
- AM Session 2: Workgroups & Teams

15-min break

LUNCH

- PM Session 1: Tools & Models
- PM Session 2: Open Office Hour / Discussion

15-min break

