IOOS Office Update on the CURL (Consolidated Unfunded Requirements List) for the IOOS Advisory Committee

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Recommendations from the IOOS AC

- Benchmark and ensure active management of requirements, including analysis, traceability, allocation, and guidance, to ensure effective annual and long-term budget formulation
- Tie requirements management to Infrastructure Investments
- Maintain/Build on existing partnership models
### Background - IOOS Requirements Management

2 slides from IOOS AC brief on July 29, 2020.

<table>
<thead>
<tr>
<th>Level</th>
<th>Sources</th>
<th>Approval</th>
<th>Addressed in</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>ICOOS Act Congress OMB NOAA/NOS IOOC</td>
<td>Director</td>
<td>Annual Planning Process</td>
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<tr>
<td>Medium</td>
<td>IOOS Strategic Plan Implementation Plans Regional Priorities</td>
<td>Director</td>
<td>Annual Planning Process</td>
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<tr>
<td>Low</td>
<td>IT user requirements Project plans</td>
<td>Division Chief</td>
<td>Software development (Trello Tracking) Projects</td>
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Background - Annual Planning Cycle - Requirements Assessment and Integration

- Strategic Document Review
  - Assess
  - Propose

- Deputy & Div Chiefs Input
  - Assess
  - Propose

- Director Planning Guidance
  - Approve

- Draft Annual Guidance Memo
  - Assess
  - Propose
  - Approve

- Division Review and Planning
  - Assess
  - Propose
  - Approve

- Assessment and input to the next year plan

- Execution of Projects and Plans
  - Assess
  - Propose
  - Approve

- Final Detailed Annual Plans

- Division Level Detailed Planning

- Final Annual Guidance Memo

Requirements
- High Level
- Med Level
- Low Level

**Assess**

**Propose**

**Approve**
Office developed a Consolidated Unfunded Requirements List - CURL

Main objectives -
- Vision and Strategy for the Future,
- Creating and Sustaining Strategic Partnerships,
- Requirements Management and Infrastructure Investments for Success and Growth, and
- Improved understanding of ‘systematic’ needs.

To elaborate on recommendations...
- Feeds into annual investment strategy in IOOS/NOAA/interagency
Development of the CURL

- 3 main objectives
  - Understand the scope of proposed (‘new’ or ‘previously unfunded’) activities in all IOOS new 5 year proposals
  - to enable analysis and planning for funding mechanisms when “special” funding sources arrive
  - to prepare for spend plan development phase for infrastructure funding

- Process
  - Worked with Regions to develop the template and try some examples
  - Developed a beta version
  - IOOS Association ALSO began an infrastructure list of needs
What is the CURL?

- The CURL is a tool
  - a spreadsheet which captures:
    - non funded projects from proposals
    - infrastructure needs from RAs

- Collection of information to help explain needs:
  - details of a project
  - what are the infrastructure needs?
  - what funding amounts are needed? - broken down by year/equipment vs O&M
  - what are the strategy areas it leverages? - nat’l strategy, subsystems, societal benefits
  - who are the partners on this project?
How to use the CURL

- **Use filters and pivot tables to do analysis**
  - filters- examples
    - Funding by region and infrastructure needs
    - RAs and assets
    - Projects and strategy areas
    - Priority projects for the RAs - tier 1 and tier 2
    - Projects by RAs and costs per year
    - Project needs by non equipment costs vs equipment costs
  - pivot tables - questions we would want to group data together
    - Projects that support the new blue economy?
    - Projects that support fisheries?
    - Projects that support climate research?
    - Projects where there is overlap?
    - Projects that support resilience?
    - Projects linked to critical NOAA missions, ex:
      - What projects support weather forecasting?
      - What projects support HABs forecasting?
      - What projects support sanctuaries?
      - What other NOAA Offices are working with RAs on projects?
QUESTIONS?