*Global Class SMRs
where to start?

Clare Reimers, FIC Chair 2015
• Envisioning science needs in 2035 and beyond.
• Understanding limits of current fleet.
• Seeing what other countries are building.
* Hull form
* Propulsion/Electrical Plant
* Payload (total and science)
* Crew and Science Party
* Speed
* Endurance

1. Principal Design Characteristics
*The ship will operate .....  
  (ocean realms, endurance, sea state, ice classification....)

*The ship will be capable of ......  
  (sampling, sensors, data collection, loads, communications, navigation, maneuvering, launch/recovery ops, laboratory facilities....)

**2. Mission Characteristics**
A Ship’s Work Breakdown Structure (SWBS) and detailed specifications are developed from the top level requirements.
*Develop a list of mission scenarios envisioned for future Global class vessels.

Example: Retrieve, service and redeploy the OOI Global moorings and gliders in the Southern Ocean, Irminger Sea, Argentine Basin, Station Papa

*From the mission scenarios and considerations of regulations and cost, establish principal design characteristics and mission characteristics.

*FIC tasks
* Form subcommittee to draft mission scenarios to design and mission characteristics document

* Gather UNOLS community input

* Review iteratively

* Engage federal agencies

* In parallel FIC should develop a proposed acquisition process and timeline