

The TerraPower logo features the company name in a dark blue, sans-serif font. A green arc curves over the top right of the text. The background of the slide is decorated with abstract green and blue circular patterns, including concentric circles and arcs with small dots, resembling atomic or molecular structures.

TerraPower™

Bridging the Gap

Moving from Concept to Construction

Chris Levesque
MSR Workshop 2016
Oak Ridge National Laboratory
October 2016



Mission-Driven Innovation



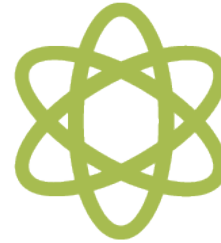
Enhance
engineered
safety



Minimize
energy costs



Offer **new**
options for
nuclear waste

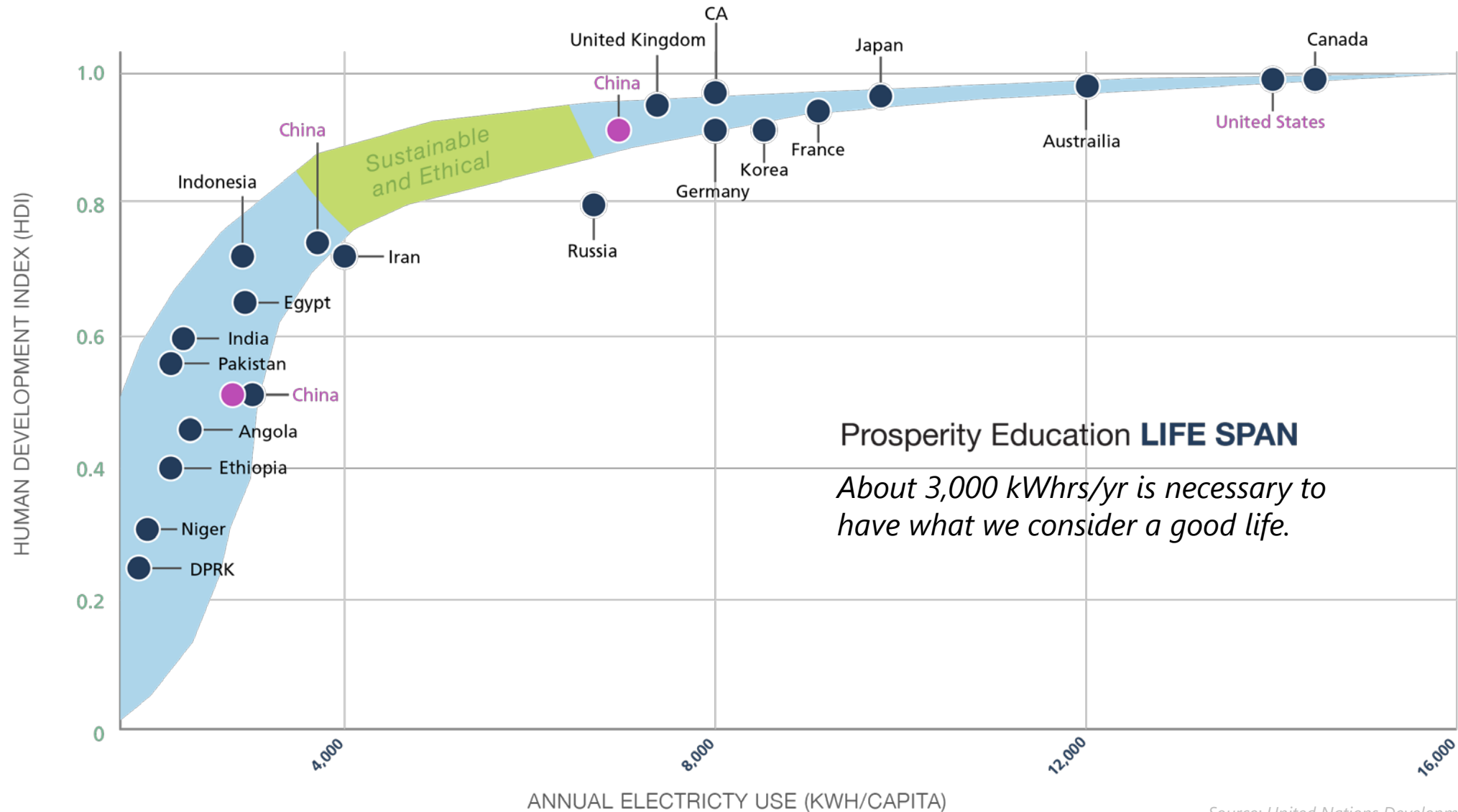


Maximize
proliferation
resistance



Provide
reliable supply
of energy to all
nations

Quality of Life is Essential to Energy Availability



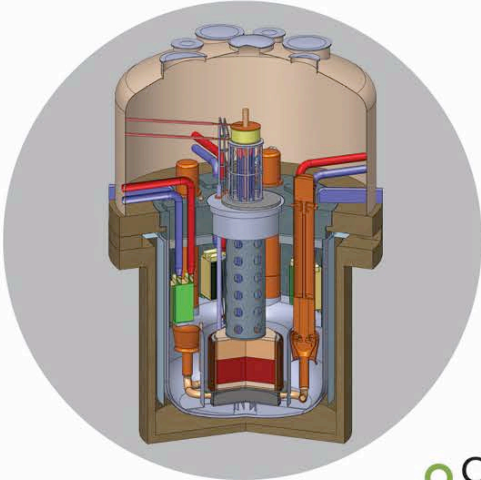
Prosperity Education **LIFE SPAN**

About 3,000 kWh/yr is necessary to have what we consider a good life.

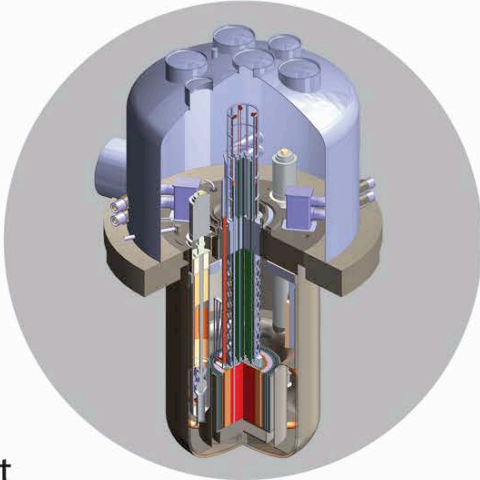
Source: United Nations Development Program; McFarlane 2006

Anatomy of Generation IV Development

PHASE 1:
TWR Core & Plant
Concept Design



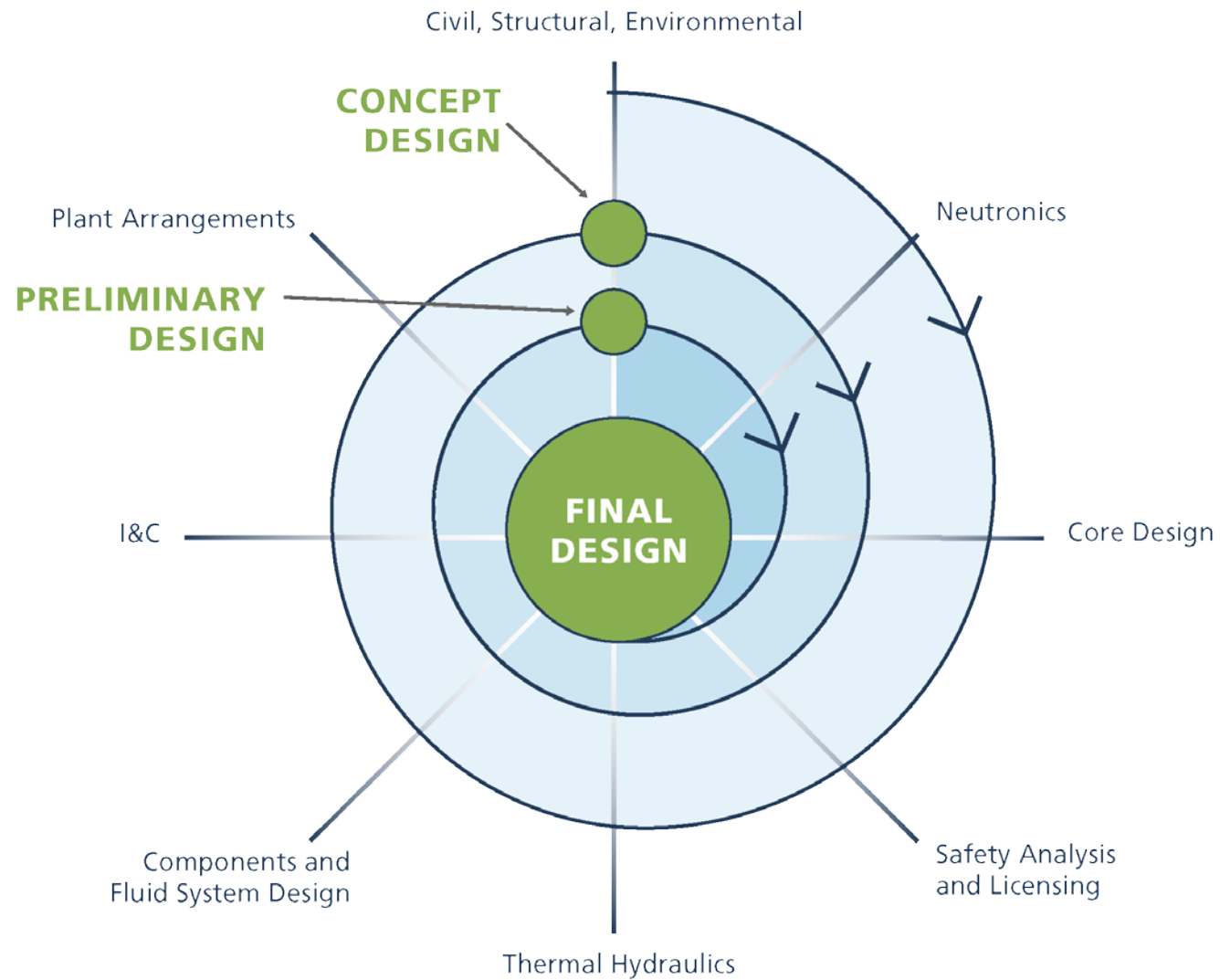
PHASE 2:
Prototype Plant Design,
Engineering & Construction



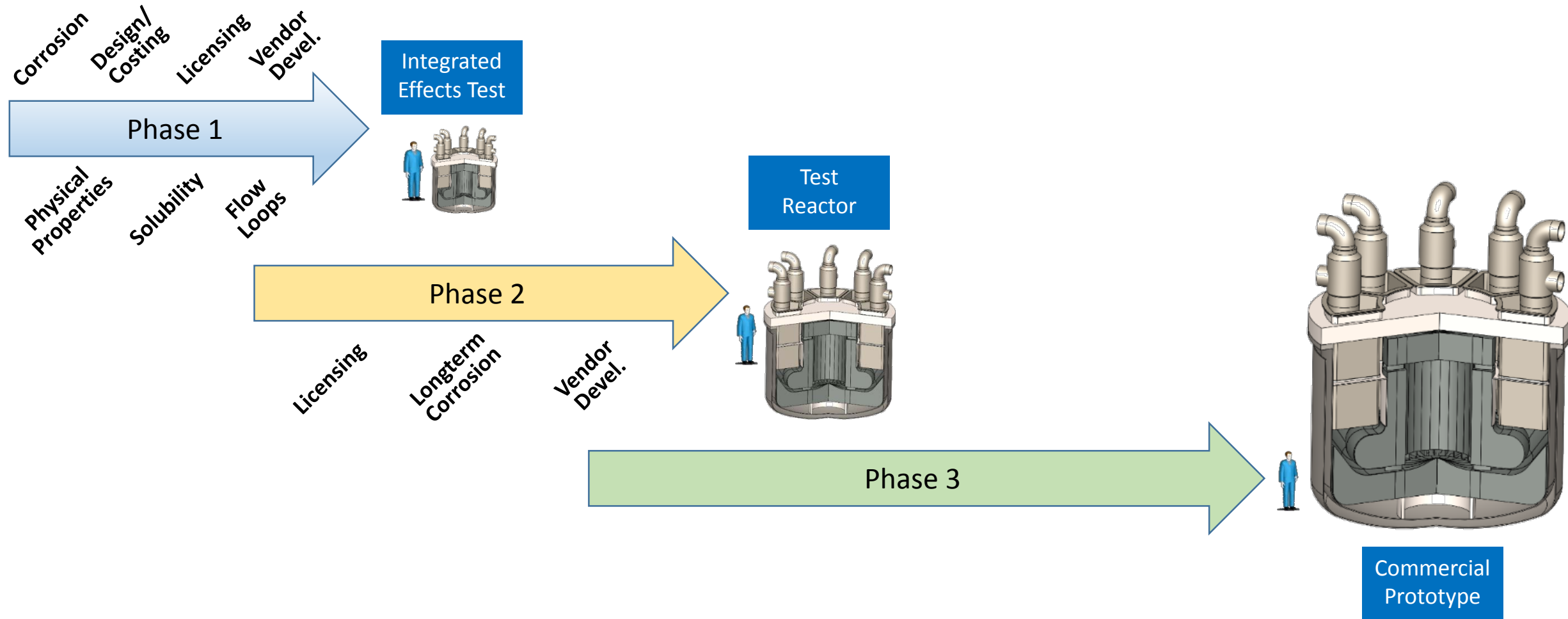
PHASE 3:
TWR-C Commercial Plant Design,
Engineering & Construction



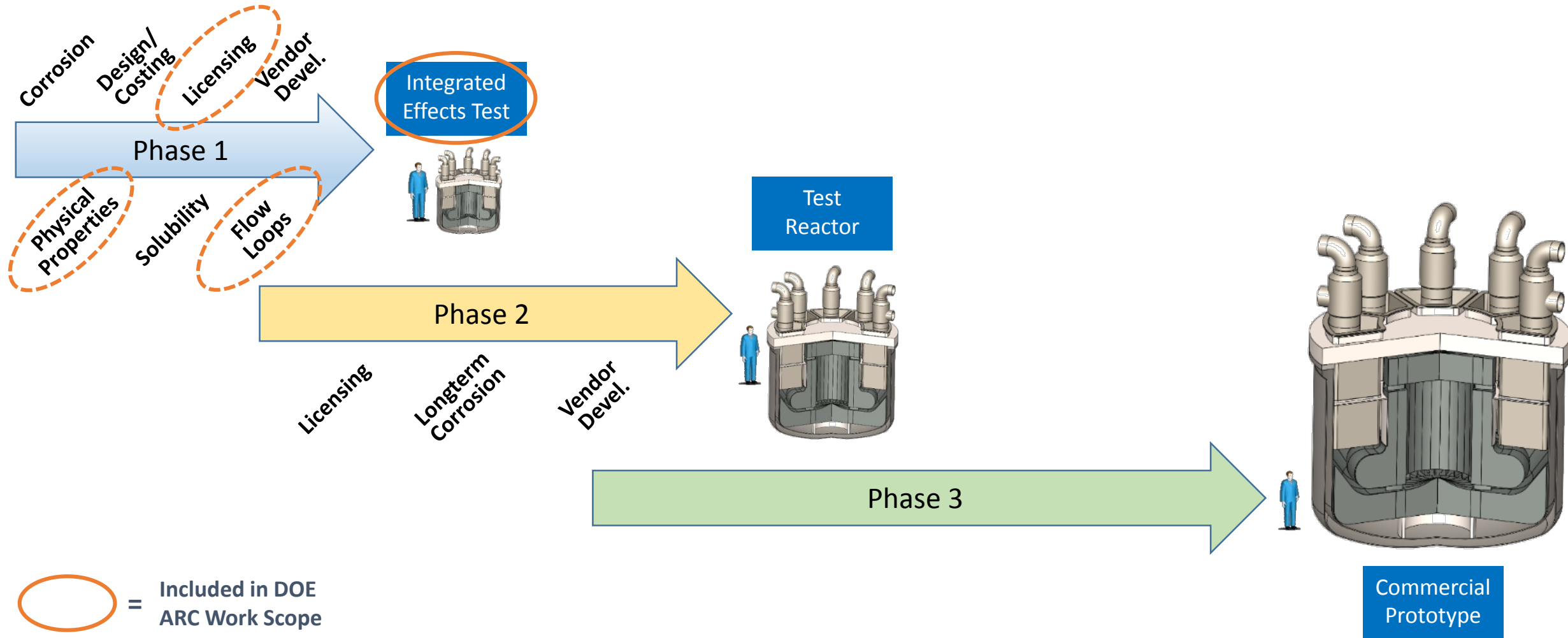
The Path to Construction



MCFR development is currently focused upon Phase 1 (risk reduction) activities



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New Capabilities Position Us for Success

Facilities enable scaled-up salt synthesis, flow loops, separate and integral effects testing

New 10,000 square foot laboratory space

Lab co-located with 11,000 square-foot machine shop



TerraPower MCFR Testing Activities





The Opportunity is Ours

- Mission Driven Innovation – patient capital and visionary investors present us with a great opportunity
- Partnership is essential
- Success will require best technology and best execution
- Talent and supply chain to be developed in support of new technologies

We Can Get to Generation IV

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TerraPower™

**Thank you
for your attention**

www.terrapower.com



Slay Risk Dragons Early

