#### Exceptional service in the national interest









# Benefits of Research and International Collaboration for Industry

Clifford K. Ho Sandia National Laboratories





### Different Perspectives & Markets



- Differing performance and cost targets
- Differing applications
- Differing regulatory/policy requirements

Industry benefits from potentially broader market applications

#### Greater Return on Investment



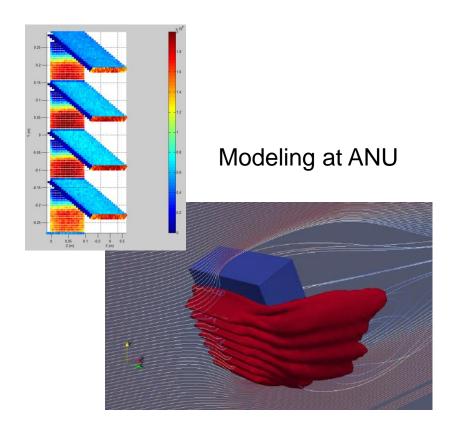
- Cost of research can be divided among multiple research organizations
- Utilize strengths and capabilities of different research institutions
  - Modeling NREL, ANU
  - Testing Sandia, CSIRO

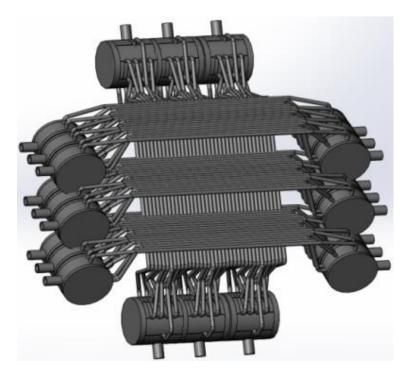
Advancements are accelerated for industry at lower costs to individual funding agencies

# Examples



- Bladed Receiver
  - Joint patent application between ANU and Sandia





Testing at Sandia

## Examples



- Particle Receiver
  - Joint IP between CSIRO and Sandia to increase performance for larger scale systems (≥ 10 MW<sub>e</sub>)



