



# Innovation Never Stops

## **CNS Webinar**

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**CANDU Owners Group**

October 5, 2021



# Never Content

*"Excellence Through Collaboration"*

## Continuous Learning Culture

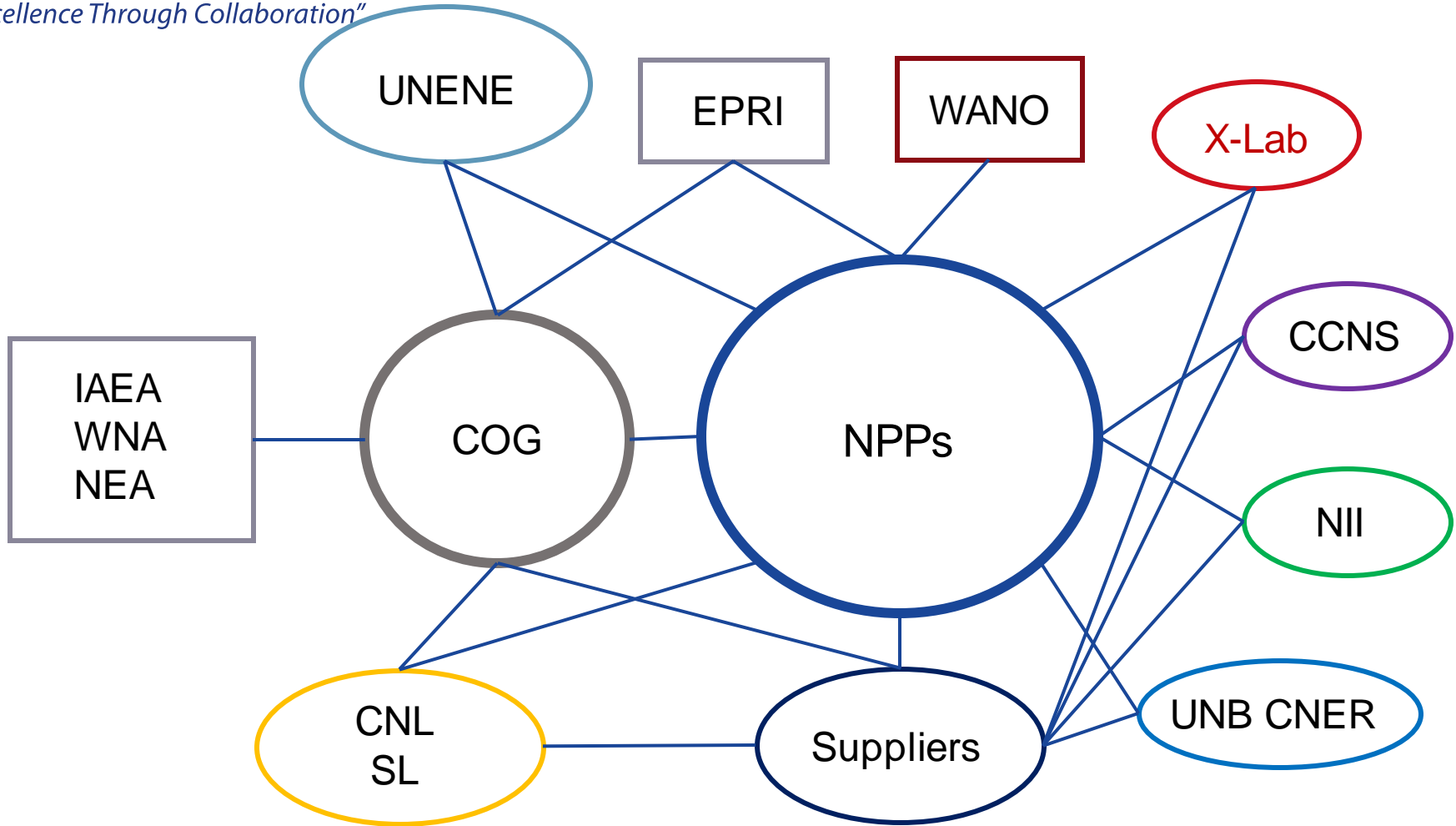
- Permeates the organizations
- Leads to a healthy questioning attitude:
  - How can we make it safer?
  - How can we improve this?
  - How can we simplify it?
  - What new technology can help us?
  - What can we create to solve it?
  - Can R&D find us the answer?



**The Nuclear Industry is never content and actively seeks improvement**

# Innovation

*"Excellence Through Collaboration"*



# COG and its Members

Excellence  
through  
Collaboration

45 operating  
CANDU units  
across 7  
countries,  
worldwide

- Canadian technology with international reach
- Between \$60-\$70 million annually in R&D and member-initiated projects
- Private, not-for-profit corporation
- Funded voluntarily by all CANDU operators worldwide & Canadian Nuclear Laboratories (CNL)

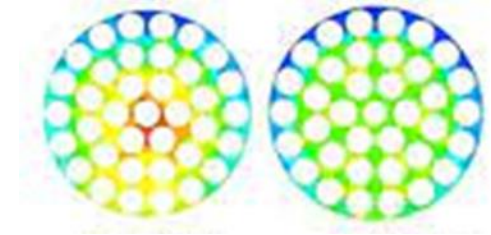


Founded in Canada in 1984

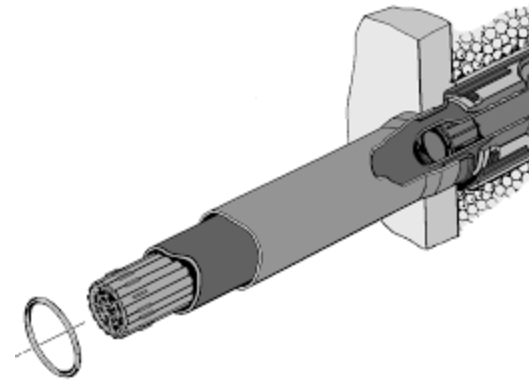




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- Chemistry Materials & Components
- Health Safety & Environment
- Industry Standard Toolset



and Strategic R&D



*"Excellence Through Collaboration"*

## Reduced Outage Program

- Online monitoring and condition-based maintenance
- Automated analysis and data analytics
- Improved fuel channel inspections
- Digitalization and modernization
- Robotics and automated tooling
- Augmented and virtual reality

Material Properties, Decommissioning and Waste, Enhanced Computer Codes, Human Performance, etc.



# Regulatory and Standards Readiness

*"Excellence Through Collaboration"*

Are we ready?

- It's rather challenging
- An informed Regulator is a better Regulator
- A technology-neutral, flexible framework is indispensable
- Open and transparent dialogue amongst stakeholders
- Team effort

Regulations and standards should not be an obstacle but a support mechanism of innovative ideas such that the industry and stakeholders can fulfil their objectives.