IAEA
International Atomic Energy Agency

Technical Meeting on Artificial Intelligence for Nuclear Technology and Applications

#AI4Atoms

25–29 October 2021

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Welcome

>300 designated participants

59 IAEA's Member States

7 inter- and non- governmental organizations

11 domains

Ethics
Food and Agriculture
Human Health
Nuclear Data
Nuclear Fusion
Nuclear Physics
Nuclear Power
Nuclear Security
Radiation Protection
Safeguards Verification
Water and Environment

AI…

- can be a game changing technology
- comes with challenges (transparency, trust, security, ethical concerns, …)
- encourages strong international partnerships & cross-cutting cooperation
- is for the first time the focus of an IAEA technical meeting

TM structure

Plenary sessions

Mon, Wed, Thu: 25 min plenary + 5 min Q&A (use chat function or raise hand)

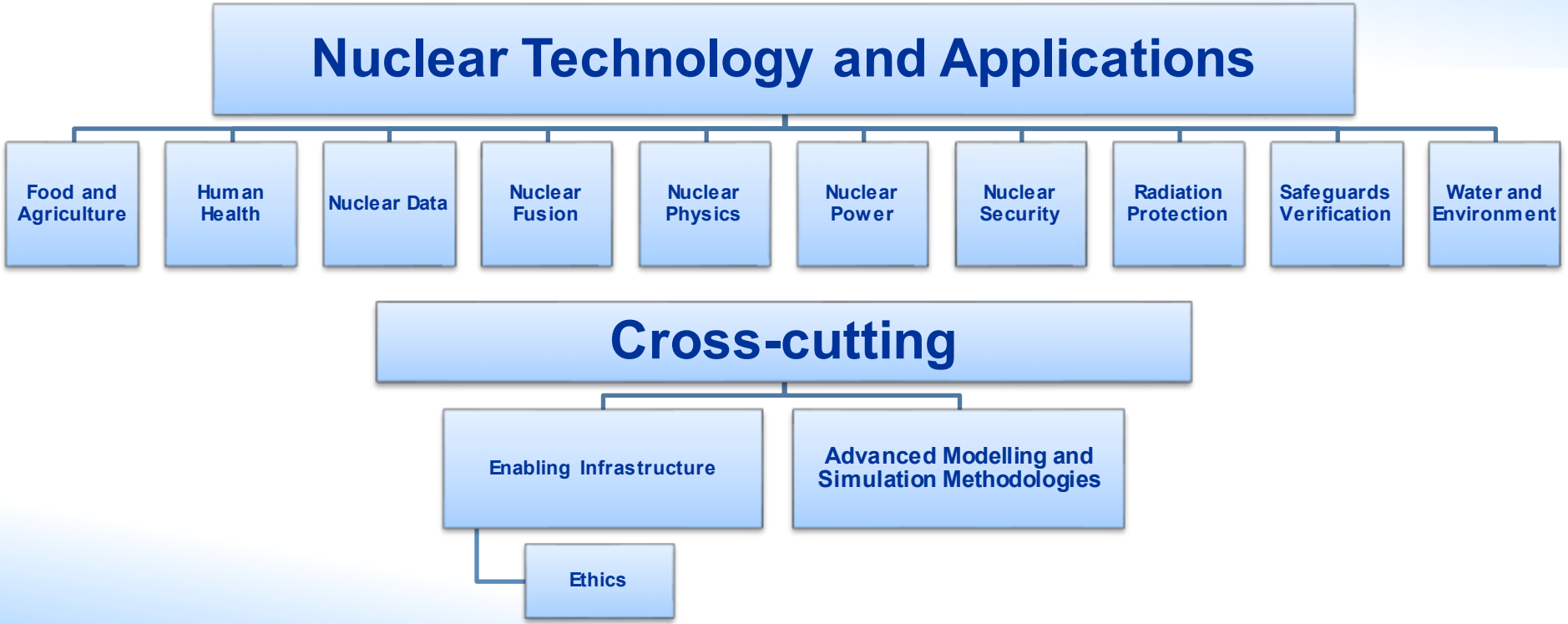
Friday: 15 minutes summary presentations by each WG

Working Group sessions

Focus on nuclear science, technology and applications (11 domains) in connection with IAEA programmes

Working to create presentations for Friday plenary sessions and summary documents for TM final report

Domains and Working Groups



TM goals

- **Roadmap for IAEA role & support in use of AI in nuclear science, technology, and applications**
- **Summaries of Working Group sessions: backbone of TM final report**
- **Friday sessions: to preview content of TM final report**
- **Output: TM final report ~end of 2022**

Plenary sessions 1-3

Monday, Wednesday, Thursday

- 25 minutes plenary talks
- 5 minutes for immediate questions at the end of each talk
- Dedicated Q&A session at the end of each plenary for additional questions which can be answered by all speakers
- Please use the chat function or raise your hand

Plenary sessions 4-5

Friday

- **Summaries of the Working Groups**
  - 15 minutes summary presentations by each WG
- **Closing**
  - Wrap up from IAEA
  - Future looking

Working Group sessions

Details communicated separately by WG organizers

Current WG schedule in Indico may change

Please check AI for Atoms Website to access information about or get in touch with the various WG:
https://nucleus-new.iaea.org/sites/ai4atoms/

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Relevant material (PPTs, any other information) on

Indico website:
https://conferences.iaea.org/event/245/overview

AI for Atoms website:
https://nucleus-new.iaea.org/sites/ai4atoms/

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Thank you!