

# Vietnam's Expectations for the IRRS Mission

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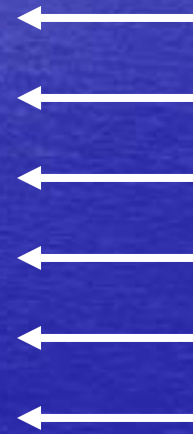
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# Brief on Vietnam's Expectations from the IRRS Mission

IRRS's activities cover each of the following legal and governmental infrastructure review areas:

- Legislative and governmental responsibilities
- Regulatory body responsibilities and functions
- Organization of the regulatory body
- Authorization process
- Regulations and guides
- Review and assessment
- Inspection and enforcement
- Management systems for regulatory bodies.

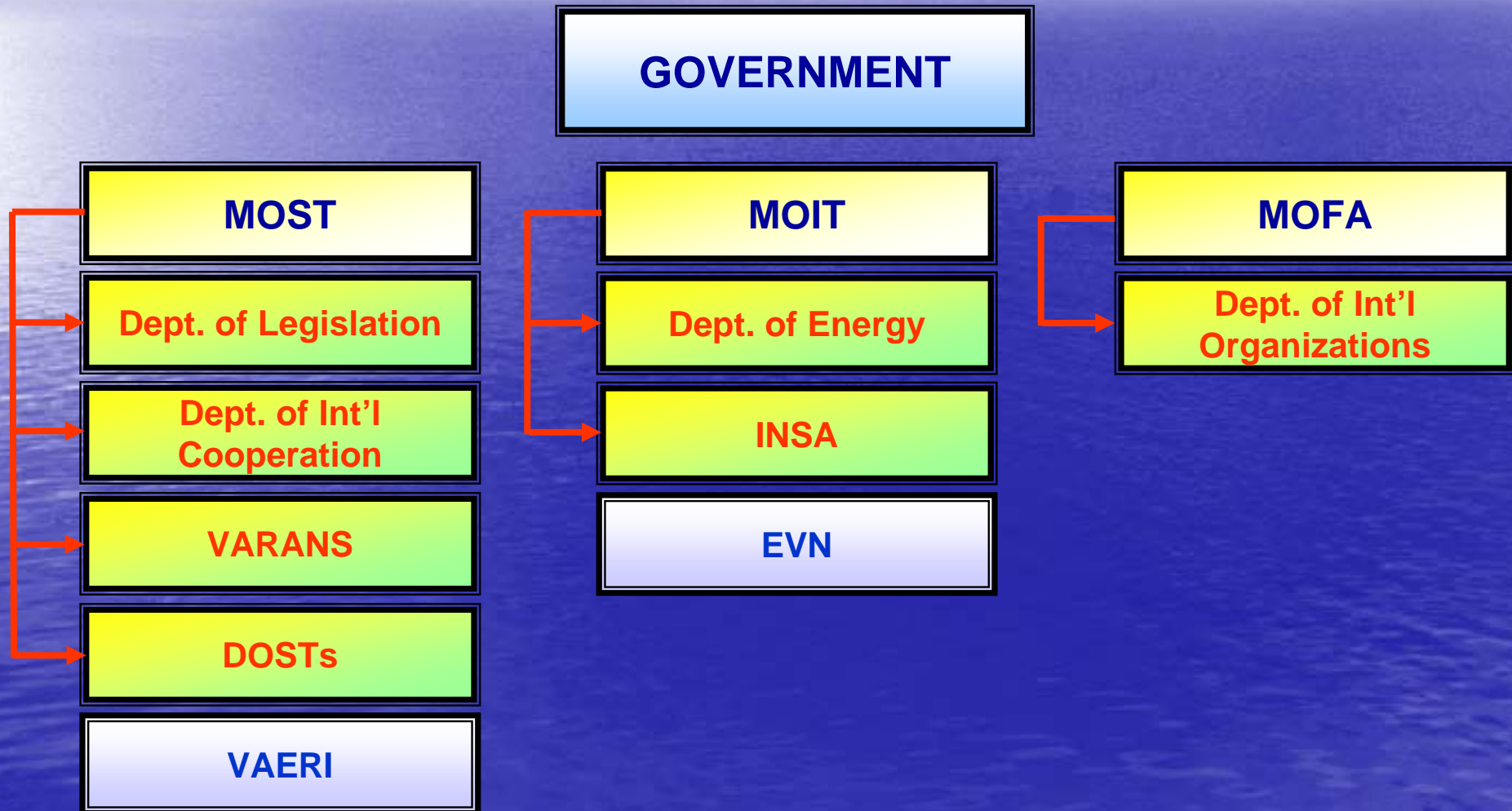


Vietnam's Expectations

# Legislative and governmental infrastructure

- Atomic Energy Law will be validated since January 1, 2009
- The Law stipulates activities in the field of atomic energy and the assurance of safety and security in those activities
- There are 17 under-law regulation documents (on radiation safety only)

# Legislative and governmental infrastructure (cont')



# Regulatory body responsibilities and functions

## Atomic Energy Law, Article 7

- The Government shall unify the State management on activities in the field of atomic energy.
- The Ministry of Science and Technology shall be responsible before the Government for conducting State management on activities in the field of atomic energy.
- Ministries, ministerial-level agencies, within their functions and authorities, shall perform the State management on activities in the field of atomic energy in accordance with their responsibilities designated by the Government.
- Provincial/city People's Committees, within their functions and authorities, shall perform the State management on activities in the field of atomic energy in accordance with their responsibilities designated by the Government.

# Regulatory body responsibilities and functions (cont')

## Atomic Energy Law, Article 8

VARANS's responsibilities and functions:

- To develop draft legal documents on radiation and nuclear safety;
- To organize for the notification of radioactive substances, radiation equipments, nuclear material, nuclear equipments, and to license for conducting radiation practices in accordance with its competency;
- To conduct and organize verification on radiation and nuclear safety;
- To carry out checking, inspection; to handle violations against regulations on radiation and nuclear safety; and to suspend radiation practices in accordance with its competency; to recommend to the relevant State competent authority to suspend operation research reactor and nuclear power plant if suspecting there is unsafe factor;

# Regulatory body responsibilities and functions (cont')

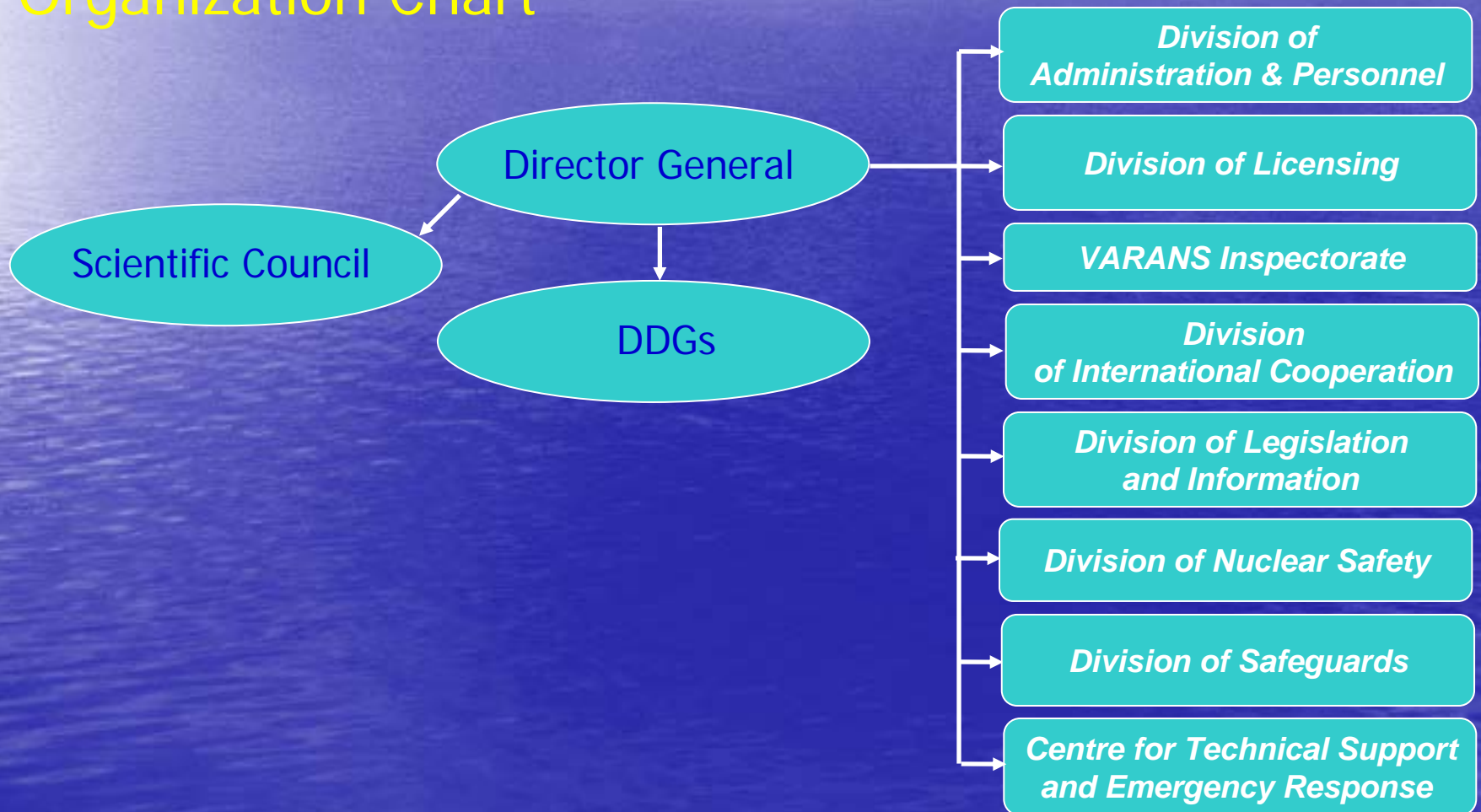
## VARANS's responsibilities and functions (cont'):

- To organize nuclear control activities in accordance with provisions by laws;
- To take part in emergency response to radiation and nuclear incidents within its competency;
- To establish and maintain the national information system on radiation and nuclear safety;
- To organize and cooperate for professional trainings on radiation and nuclear safety;
- To carry out international cooperation activities in radiation and nuclear safety.



# VARANS's organization and human resource

## Organization Chart



# VARANS's organization and human resource (cont')

VARANS is an organization with the average age of

29



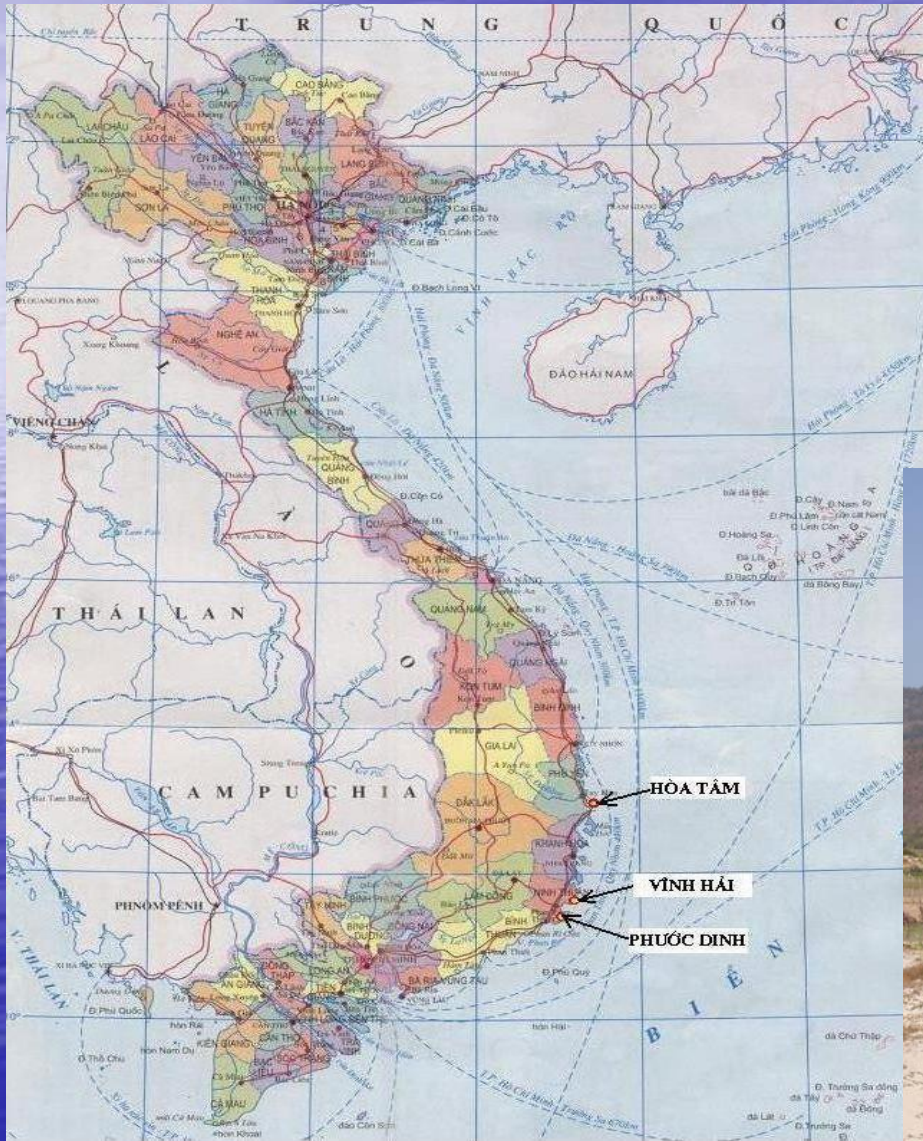
# Authorization process (except NPP)

- DOSTs responsible for authorization of X-ray diagnosis machines
- VARANS is responsible for authorization of all other activities  
(550 license applications/year have been processed)

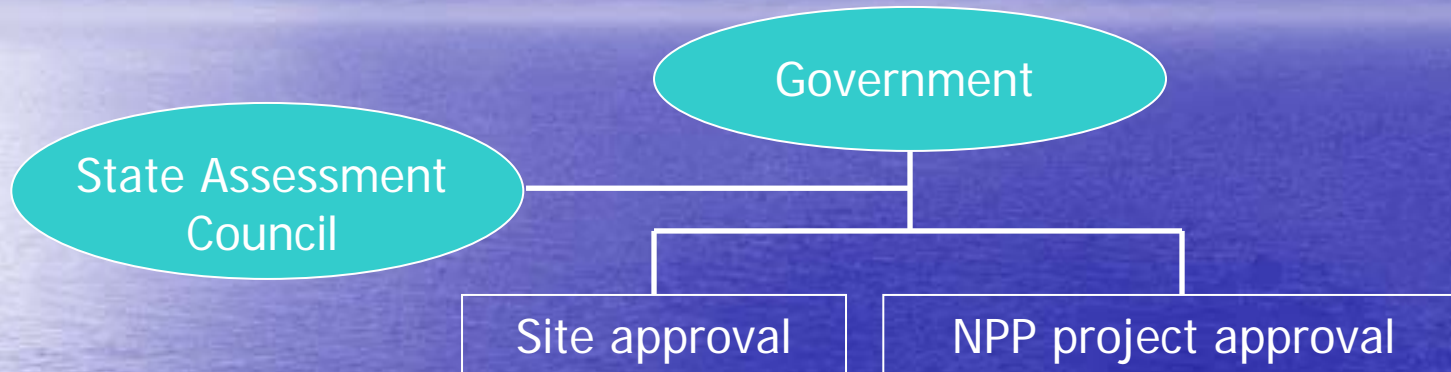
Vietnam is preparing for decommissioning the Dalat RR and studying on introduction of a new RR

# Authorization process (for NPP)

Vietnam is preparing for introduction of the first NPP into the country in 2020



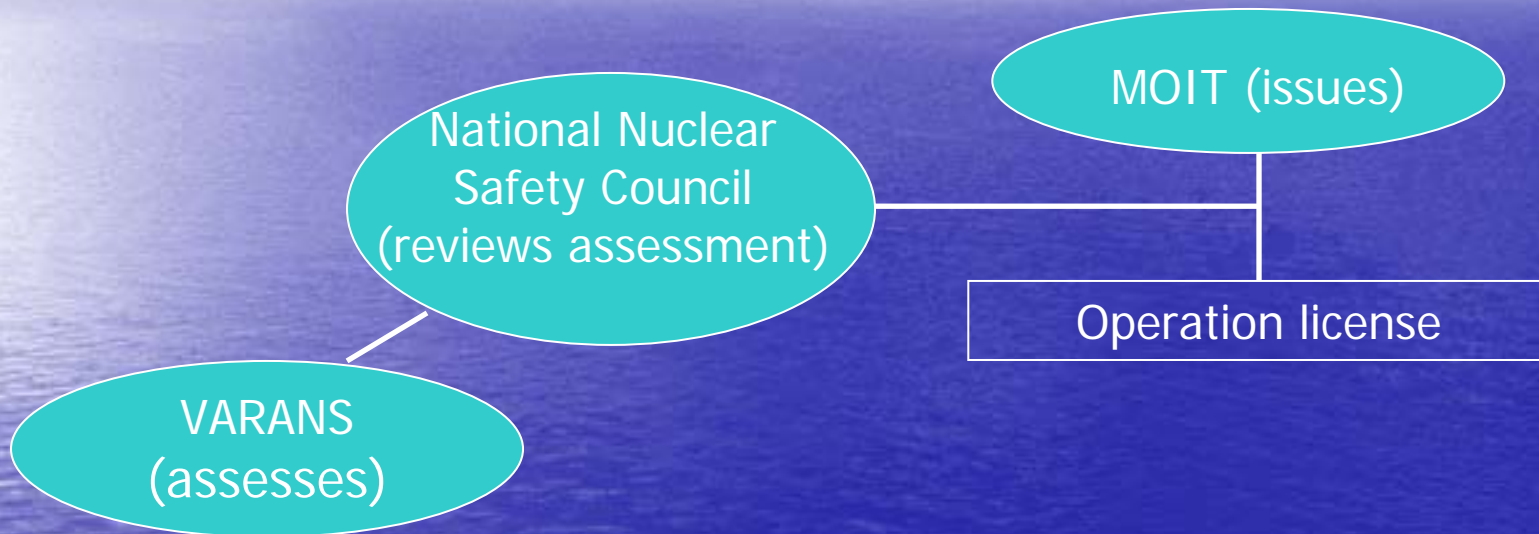
# Authorization process (for NPP , cont')



- Early Site approval, or Application for Site approval together with Application for NPP project approval
- NPP project approval includes or does not include construction permit

In case if NPP project approval does not include construction permit, the Government authorizes MOST to consider for construction permit

# Authorization process (for NPP, cont')



- “Double check” by VARANS and the National Nuclear Safety Council

# Authorization process (except NPP)

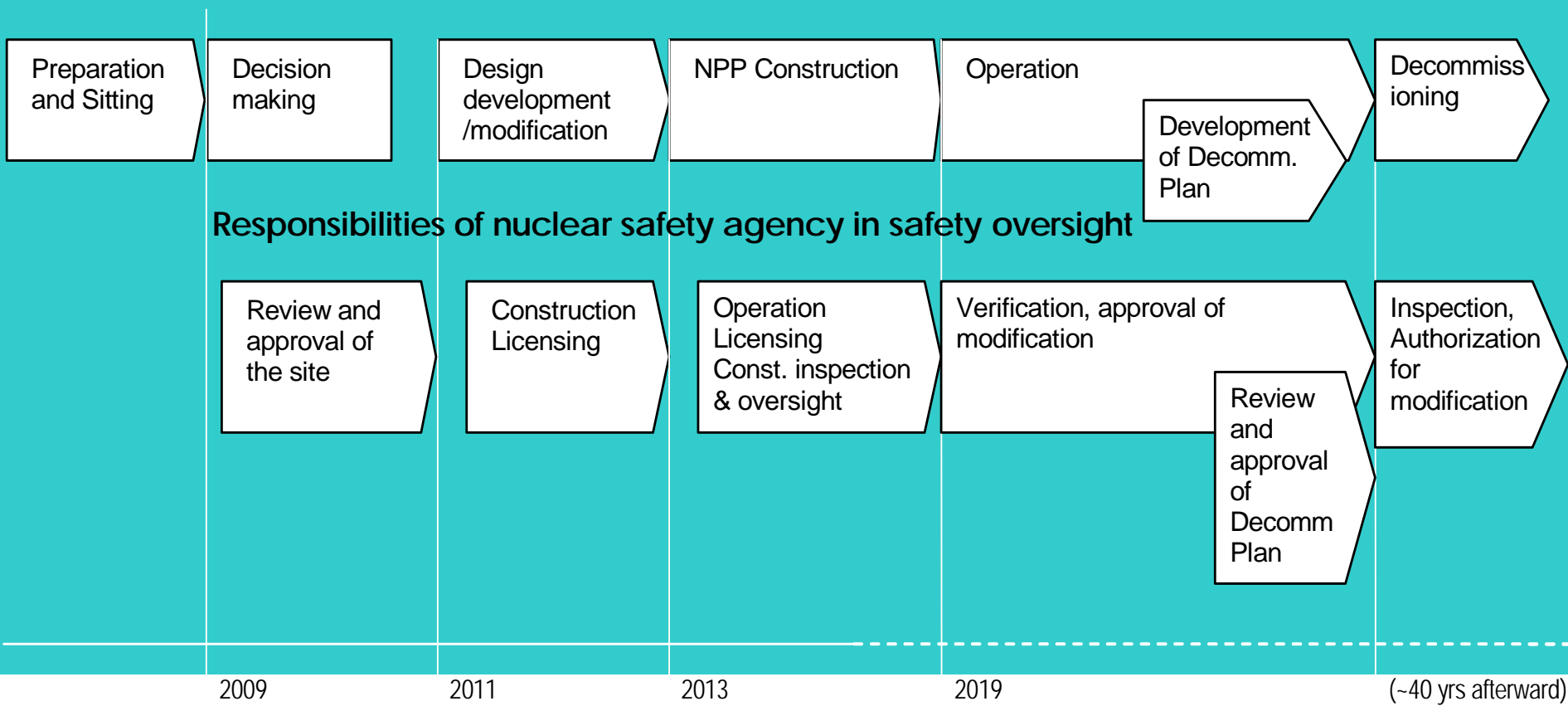
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# Provision on emergency preparedness and response

- Incidents are categorized into 5 groups to plan for emergency preparedness and response
  - Facility level: Incident groups 1, 2, 3
  - Provincial level: Incident group 4
  - National level: Incident group 5
- Responsibilities of related organizations, individuals in case of incidents are defined in Article 84 of Atomic Energy Law



# Road map for introduction of the first NPP into Vietnam



# Conclusions

- Weak points of Vietnam
  - Not enough regulations and guides on radiation safety; no one on nuclear safety, except provisions in Atomic Energy Law
  - VARANS responsibilities and functions are defined by Law, but VARANS has too few experienced staff
  - Authorization procedures (for NPP) are too complicated (there is no unique competent responsible regulatory body, but only consultant State/National councils)
  - It is unclear coordination role of the Government and special measures in case of Nuclear Emergency

# Conclusions (cont')

- Expectations for the IRRS Mission
  - Help in self-assessment and carrying out independent peer review mission
  - Help in making action plan for strengthening regulatory body (VARANS) capacity



Thank you for your attention!