

Vietnam's Expectations for the IRRS Mission

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Contents

- Brief on Vietnam's Expectations
- Brief on Vietnam's Status
 - Legislative and governmental infrastructure
 - Regulatory body responsibilities and functions
 - VARANS's organization and human resource
 - Authorization process
 - Provision on emergency preparedness and response
 - Road map for introduction of the first NPP
- Conclusions

Brief on Vietnam's Expectations from the IRRS Mission

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

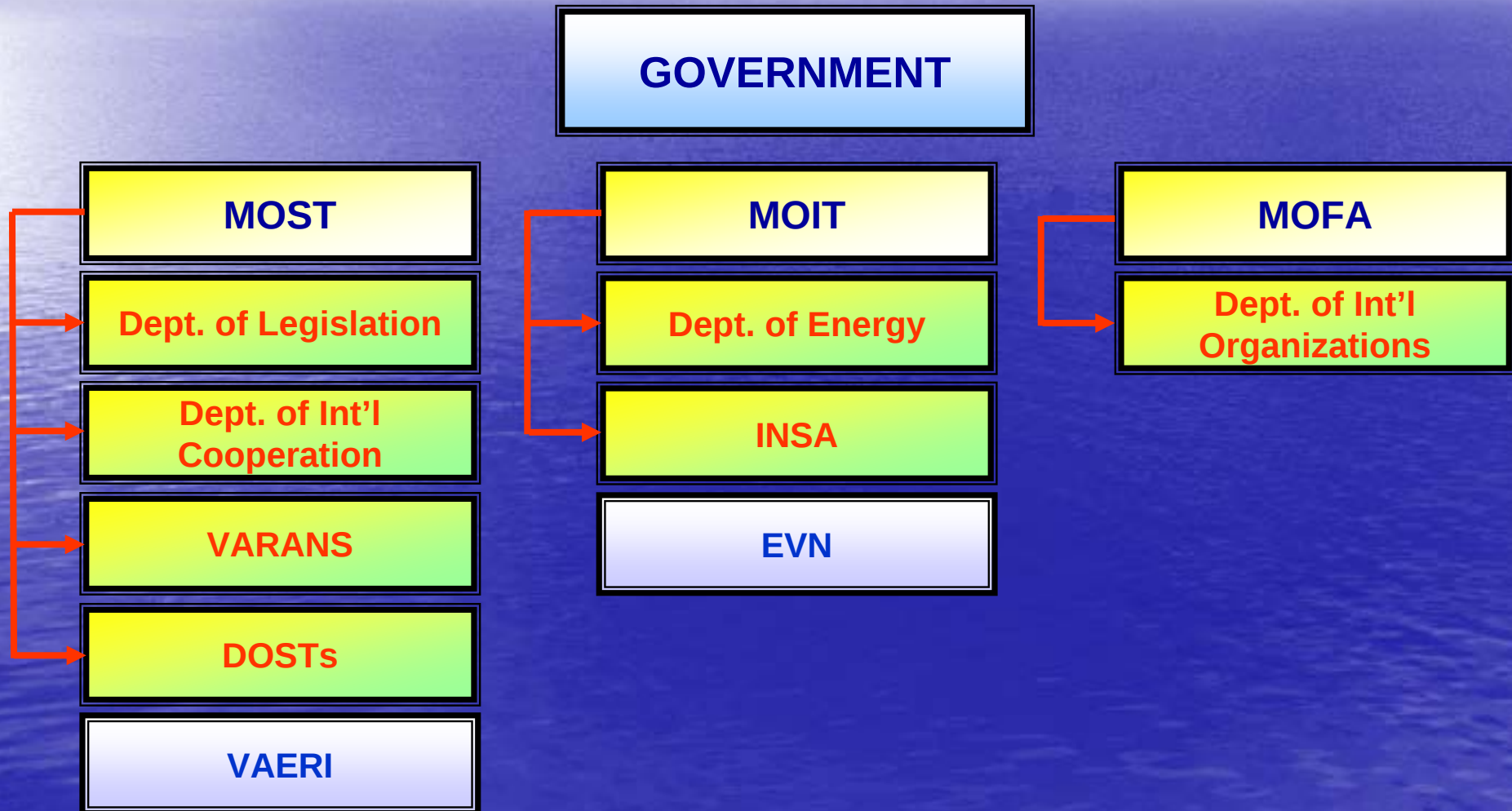
- Legislative and governmental responsibilities
- Regulatory body responsibilities and functions
- Organization of the regulatory body
- Authorization process
- Regulations and guides
- Review and assessment
- Inspection and enforcement
- Management systems for regulatory bodies.

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;

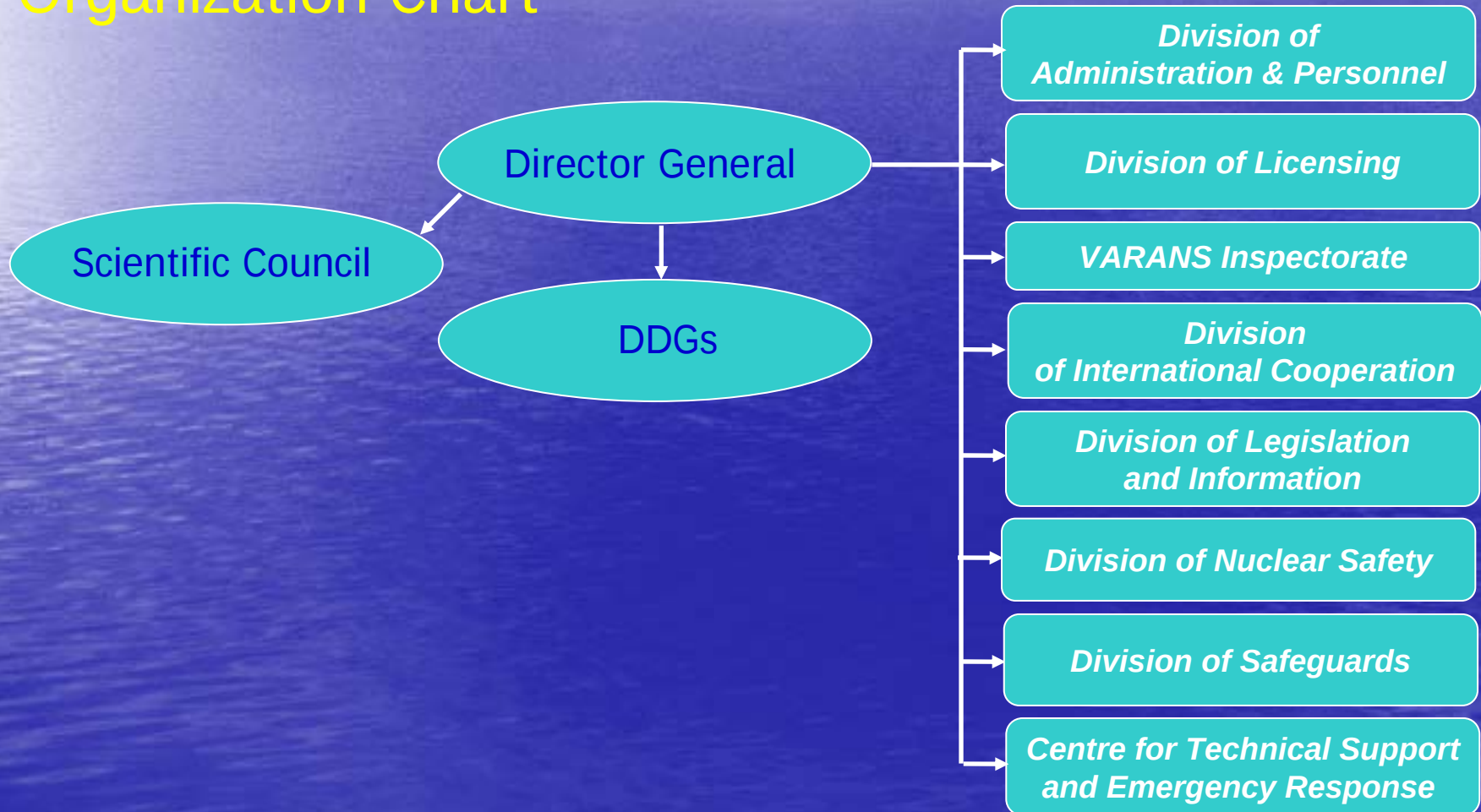
Regulatory body responsibilities and functions (cont')

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



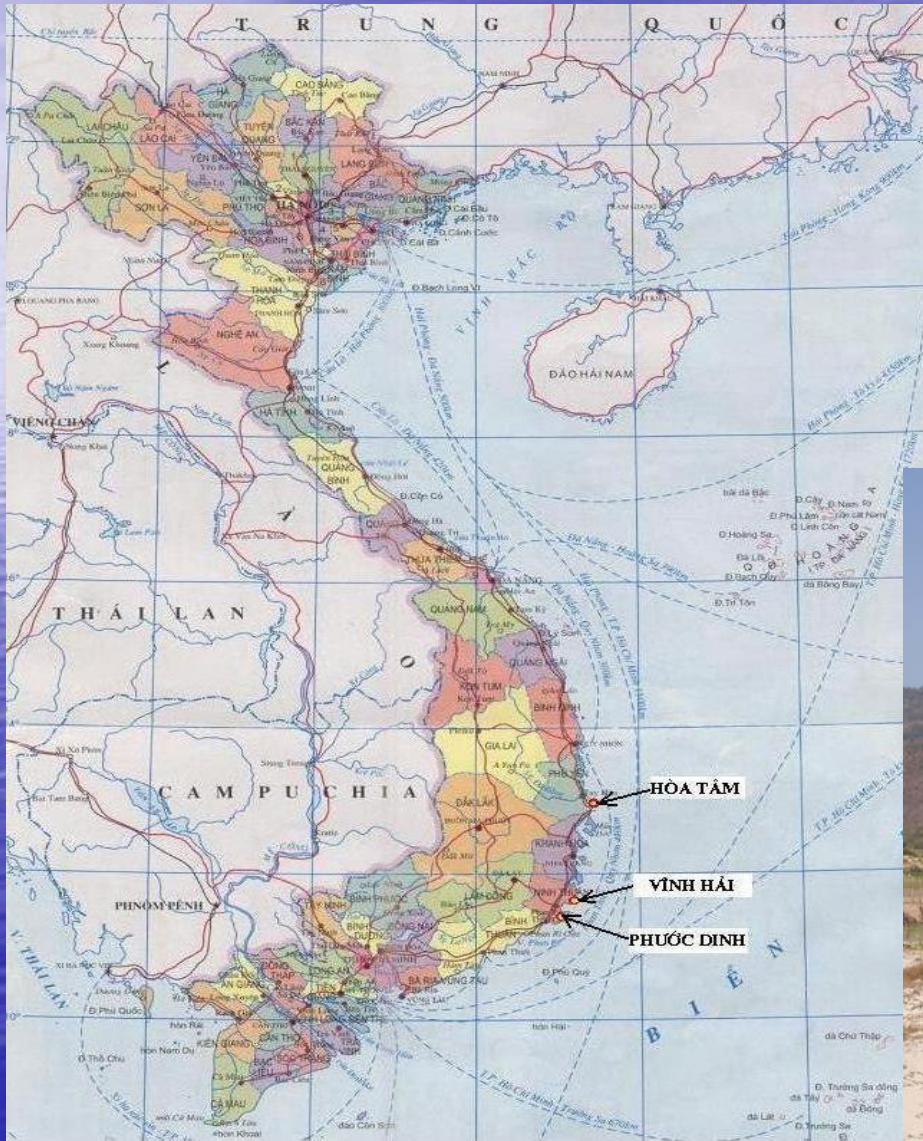
Authorization process (except NPP)

- 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)

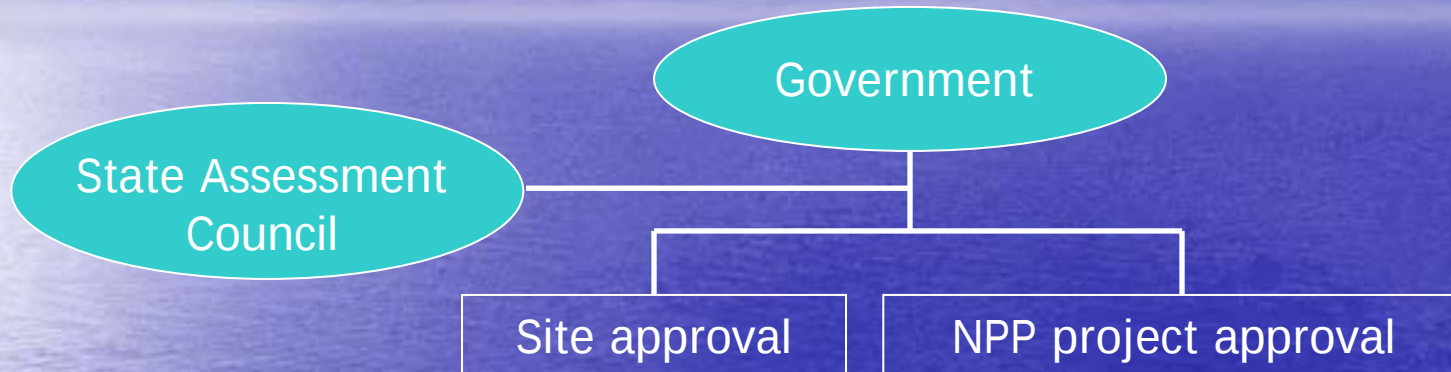
Vietnam is preparing for decommissioning the Dalat RR and studying on introduction of a new RR

Authorization process (for NPP)

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



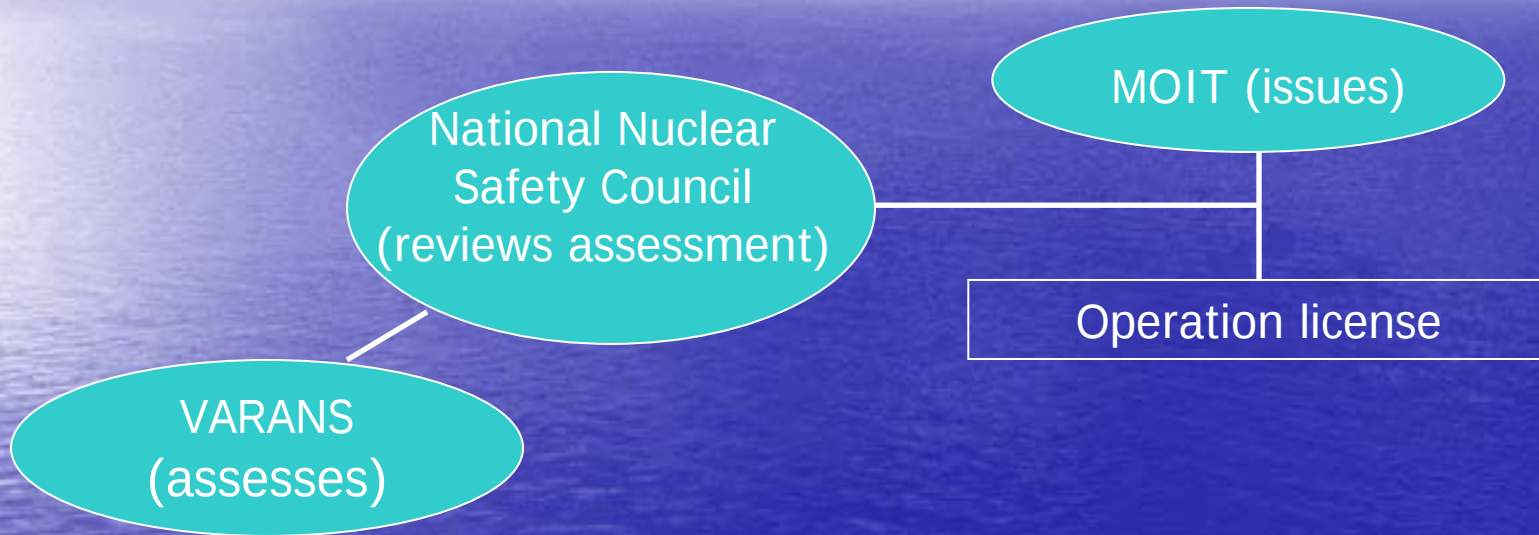
Authorization process (for NPP , cont')



- 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

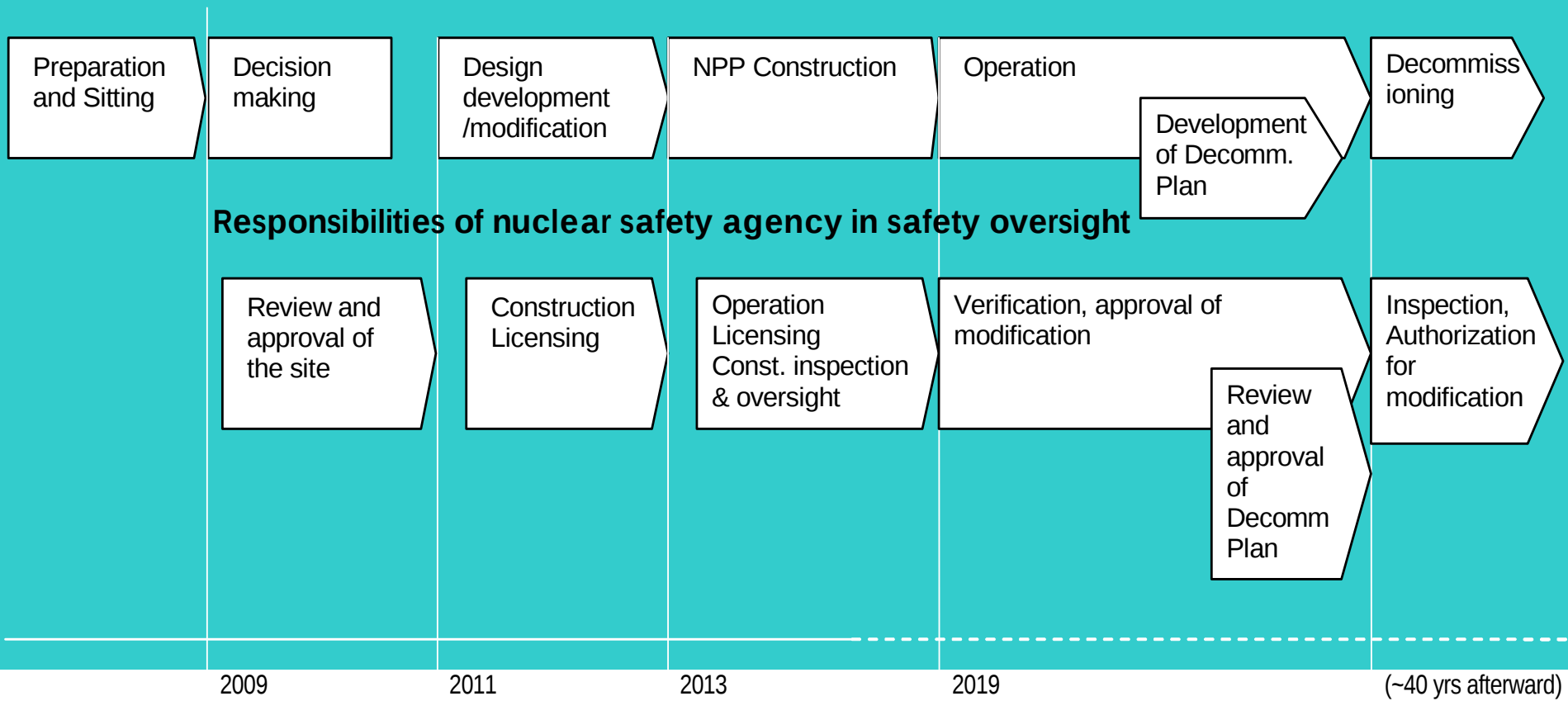
Authorization process (except NPP)

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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!