

Best Practices in Nuclear Safety Regulation



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Best Practices in Nuclear Safety Regulation

- **Best practices**
- **Lessons learned**
- **Regulatory agency must begin early**
- **Severe accidents**
- **Summary and questions**



Best Practices

- Experience from established international regulatory agencies
- Conformance to IAEA safety standards
- Process for consultations with stakeholders takes time to do it correctly
 - National policy
 - Nuclear law
 - Regulations
 - Guidance



Lessons Learned

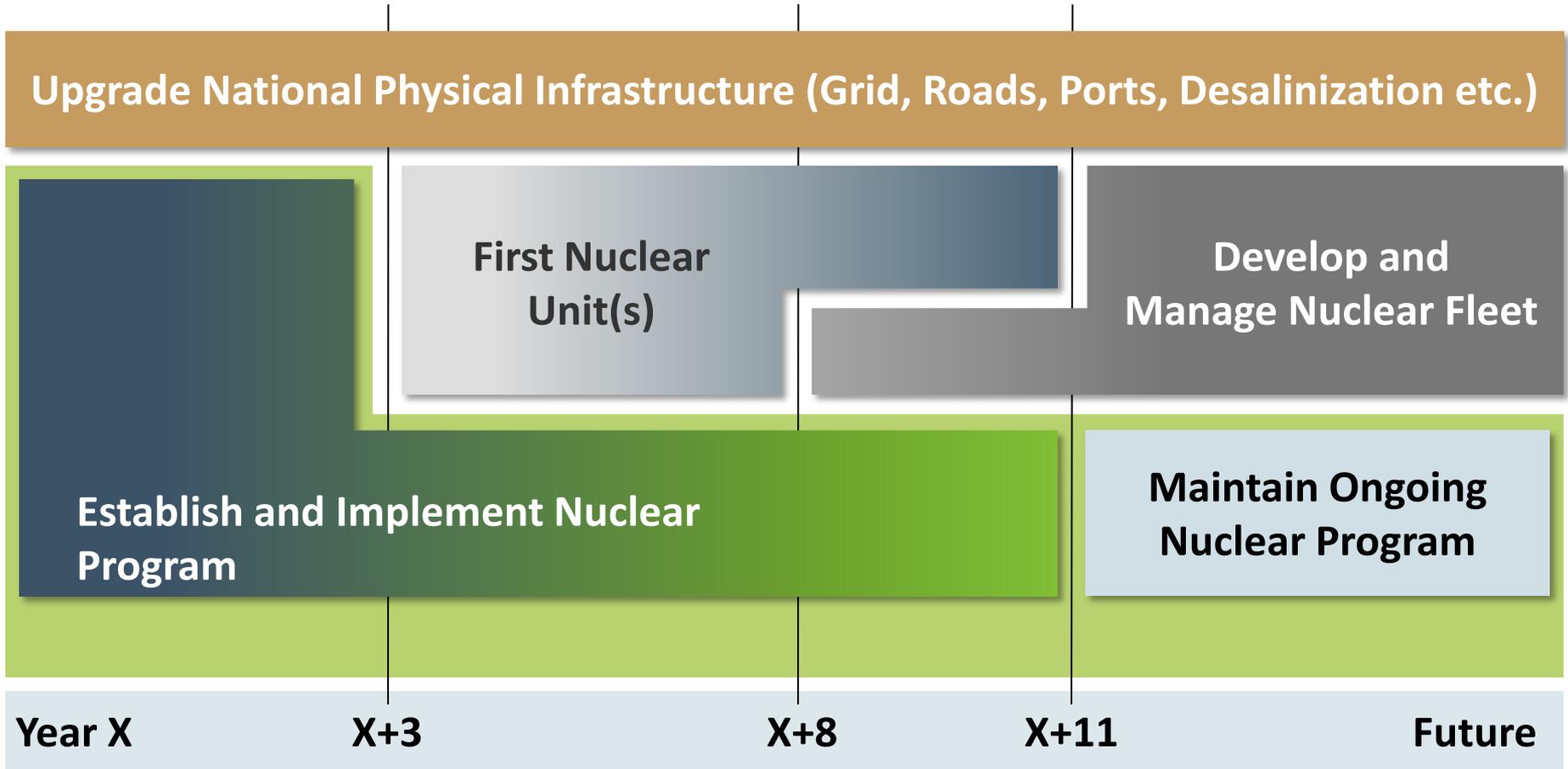
- Nuclear law and regulations needed early as possible in the process
- Regulatory requirements impact all aspects of a nuclear program: siting, procurement, design...
- Developing nuclear regulator in parallel with program office and utility requires flexibility, innovative approaches, and experienced teams
- IAEA *Milestones* need updating to reflect this



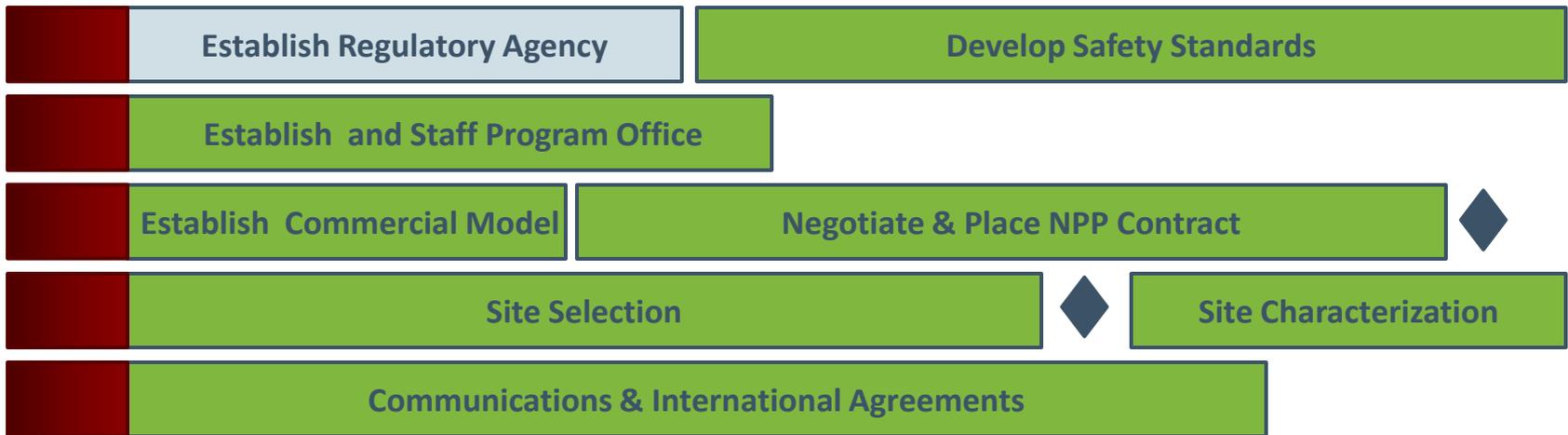
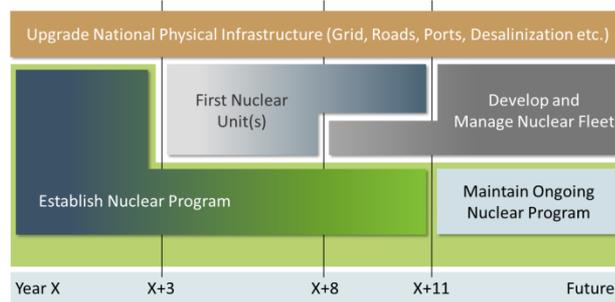
Lessons Learned

- **Structure of the organization and budget**
- **Recruiting and human resources strategy**
- **Extensive training programs**
- **Develop management systems (procedures) early**
- **Approach to regulations and regulatory guides**
- **Approach to inspection and enforcement**

Lessons Learned



Regulatory Agency Must Begin Immediately





Severe Accidents

- *Three Mile Island:* design, emergency operations and training, emergency response
- *Chernobyl:* design, safety assessment, emergency response
- *Fukushima:* siting, design, emergency response
- *Large fires and explosions:* security dimension



Summary & Questions

- Summary
- Questions ?