

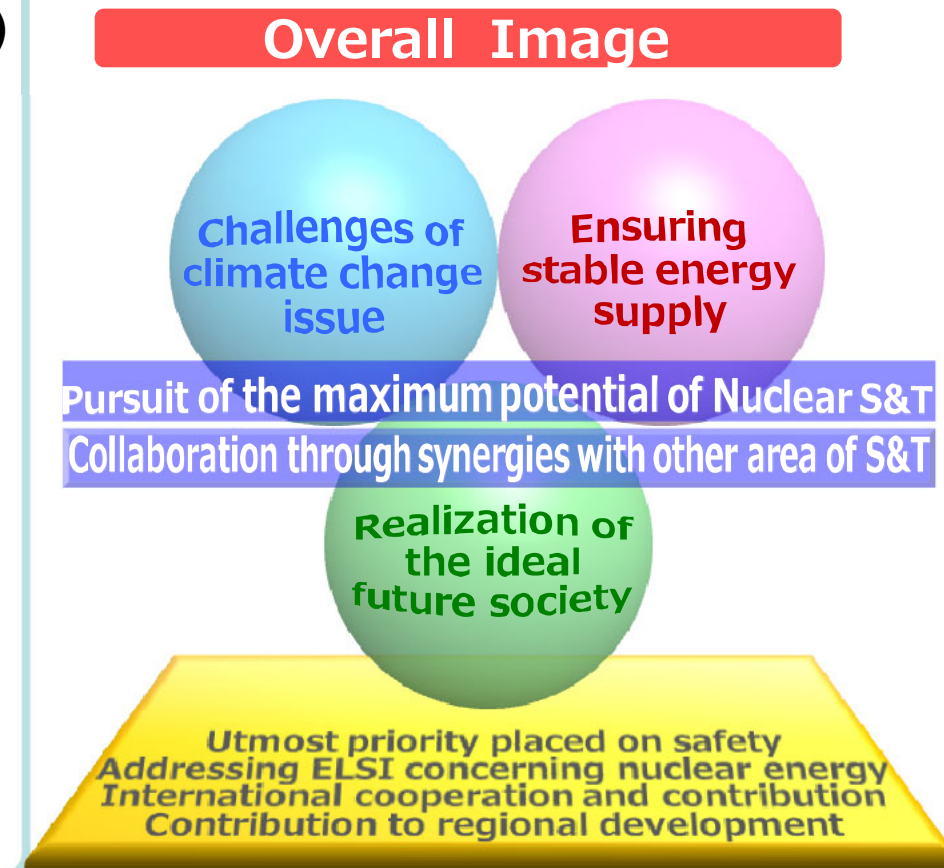
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“JAEA 2050 +” outlines Goals and Actions we should take.

1. Goals toward 2050 and beyond

- ❑ Contribution to the future society by bringing out the full potential of Nuclear Science and Technology(S&T)
 - ◆ Mitigate the risk of **global climate change**
 - ◆ **Energy security**
 - ◆ Realization of Ideal Future society
- ❑ “**New Era Nuclear S&T**” reflecting on the lessons learned from 1F accident
 - ◆ “**New Era Nuclear S&T**” means
 - new endeavor beyond the existing framework to achieve the following goals through the interaction with the society in terms of the contribution to the future society*
 - ✓ **Development of Nuclear S&T systems that addresses “S+3E”**
 - ✓ **Creation of the innovations through synergies with other areas of S&T**
 - ◆ **Tackle the challenges including Ethical, Legal and Social Issues (ELSI) associated with Nuclear S&T and present solutions**

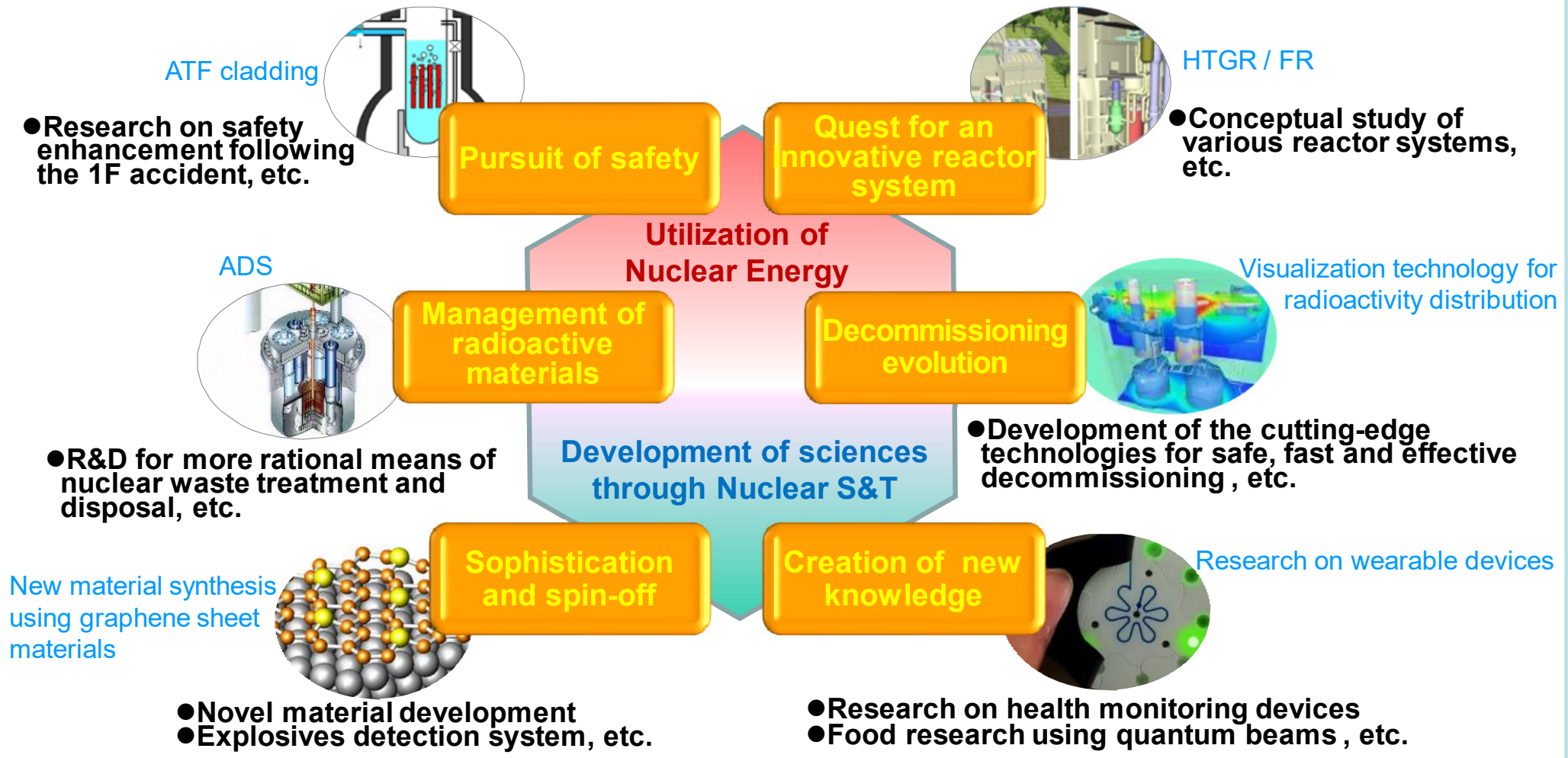
* S+3E: Safety + Energy Security, Economic Efficiency, Environment



2. Actions toward 2050 and beyond (1/2)

R&D that opens “New Era Nuclear S&T”

Establishing six research themes and promoting multidimensional R&D cross-sectionally and strategically



[The figures : example of R&D]

2. Actions toward 2050 and beyond (2/2)

Efforts / challenges for sustainable utilization of Nuclear S&T

- ❑ Steadily tackling fuel cycle back-end through “**Management of radioactive materials**” and “**Decommissioning evolution**” to develop an R&D cycle for nuclear S&T
- Addressing “nuclear legacy” and creating new industrial fields through such efforts.
- Tackling challenges to reduce environmental burden



International cooperation / International contribution and regional development

- ❑ Actively participating in **R&D cooperation** with advanced nuclear energy countries, **contributing to international organizations and emerging nuclear energy countries** as well as disseminating, and making outreach on the R&D results, etc.
- ❑ **Contributing to strengthening the nuclear non-proliferation and nuclear security regime**
- ❑ **Contributing to regional development as a community member**

Redefining the organizational concept and securing / training human resources

- ❑ Reorganizing JAEA to **coordinate and collaborate with other sectors** beyond the nuclear community and contribute to the future society
- ❑ **Securing and training human resources** from a wide range of fields