

SAFIR 2014 – expectations and results

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Where are we in SAFIR2014 and where to go with SAFIR2018?



*We need spin-offs!
Selected expertise to survive
even without SAFIR.*



*We need successful in nuclear
projects!*

Nuclear R&D in Fortum

*World class competence for our NPPs and, increasingly,
an enabler of growth in nuclear business*

New Fortum Nuclear R&D Programs



Increase internal and external visibility

Strong national and international partners

Program 1 Safe & Efficient Operations

- Thermal hydraulics and PRA
- Fuel and reactor physics
- Plant and environment
- Aging management
- Waste and decommissioning
- Overall safety



New cooperation opportunities nationally and internationally

Could some of our projects do close cooperation with SAFIR projects
→ spin offs/innovations to be taken forward

Examples of SAFIR 2014 results

To develop and keep expertise in important knowledge areas

- We are currently mapping critical knowledge areas from our point of view

Some examples of projects that we find successful from our point of view:

- *Safety requirements specifications and management in nuclear power plants (SAREMAN)*
- *Impact 2014 (IMPACT2014)*
- *Modelling of steam generators of nuclear power plants (SGEN)*
- *Human-automation collaboration in incident and accident situations (HACAS)*



What do we need in the future of SAFIR – industry view

Selected activities to move out of SAFIR (keeping the expertise):

- Spin-offs (maybe TEKES activities)
- Collaboration activities in industry/research -> new business opportunities
- Team Finland type of collaboration
- **Possibility to start new initiatives in SAFIR**

How can we develop further

- Less limitations and rules (enabling end-users to actually benefit)
- More cooperation activities to be established, examples:
 - Nugenia (EC)
 - Elforsk (Sweden)
 - OECD/NEA projects
 - Halden/IFE
- **Cooperation to be actual research, not only coordination/management**





Next generation
energy company

