



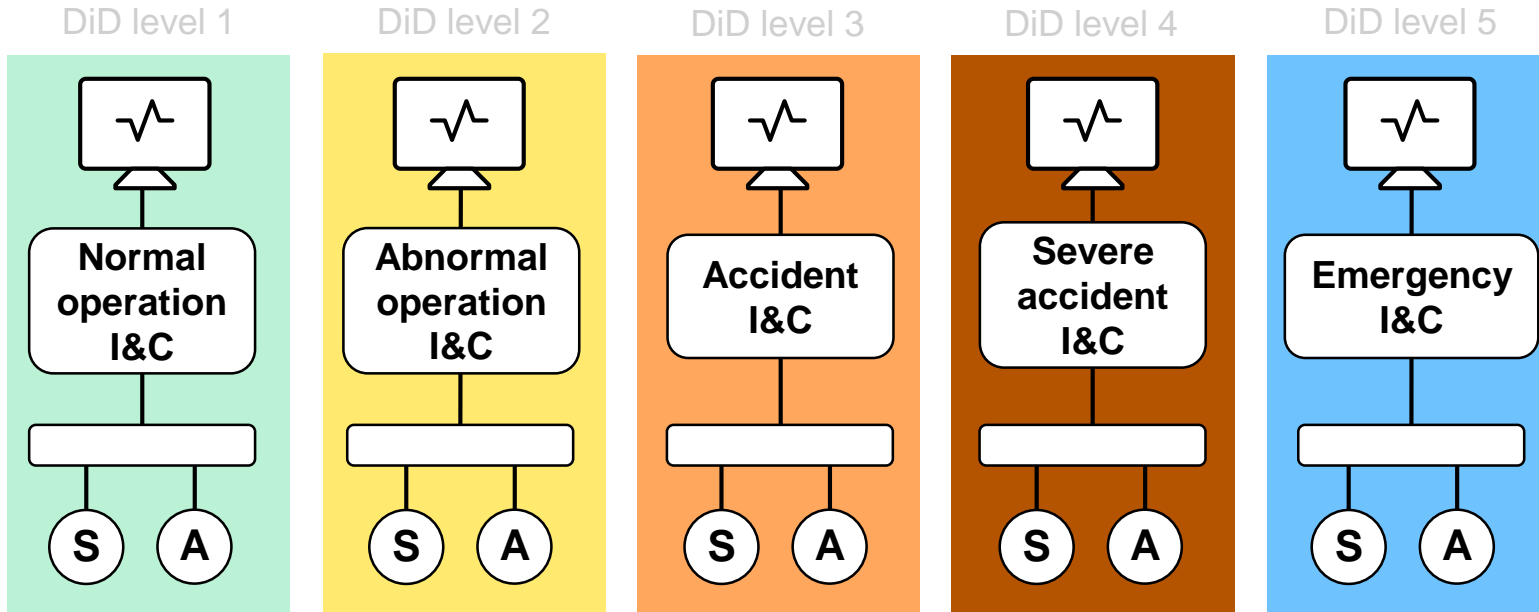
SEARCH - Safety and security assessment of overall I&C architectures

KYT2022-SAFIR2022 Interim Seminar
18.3.2021

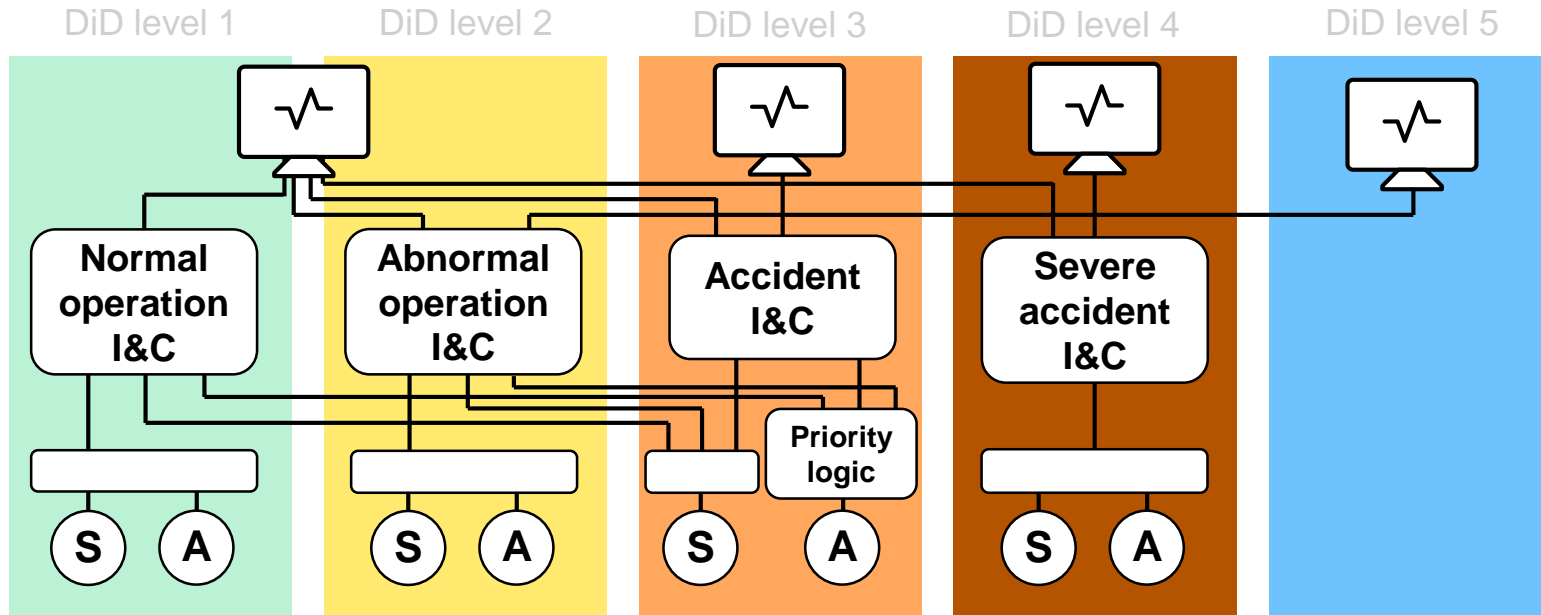
Antti Pakonen (VTT)

09/04/2021 VTT – beyond the obvious

I&C Architectures & Defence-in-Depth?



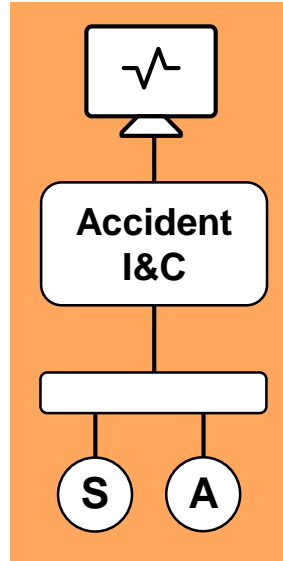
A realistic I&C Architecture



Safety vs. Security vs. Availability



Shutterstock



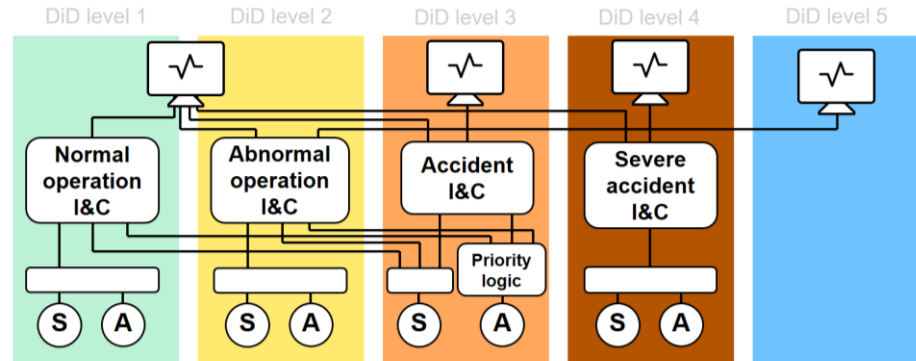
TVO



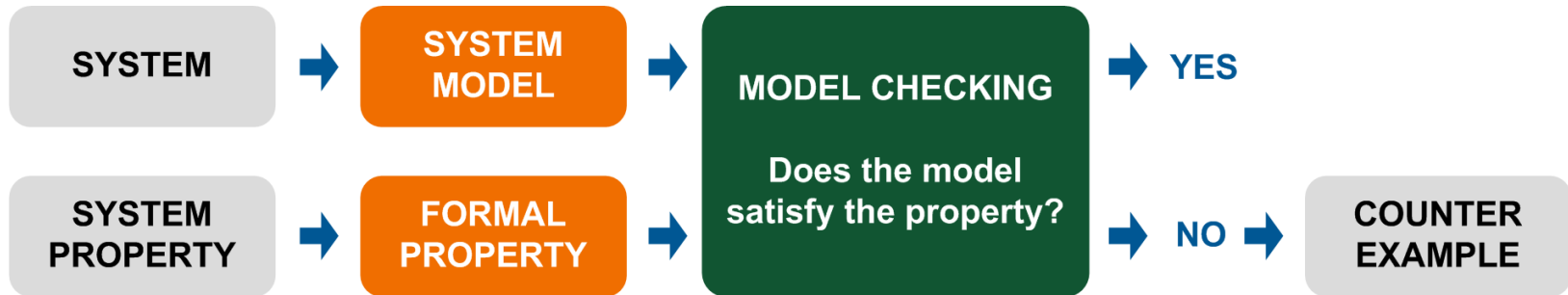
Rolls-Royce

SEARCH 2019-2022

- SEARCH develops **methods and tools** to assess the safety & security of **technical design solutions** related to **overall I&C architectures**.



Model checking

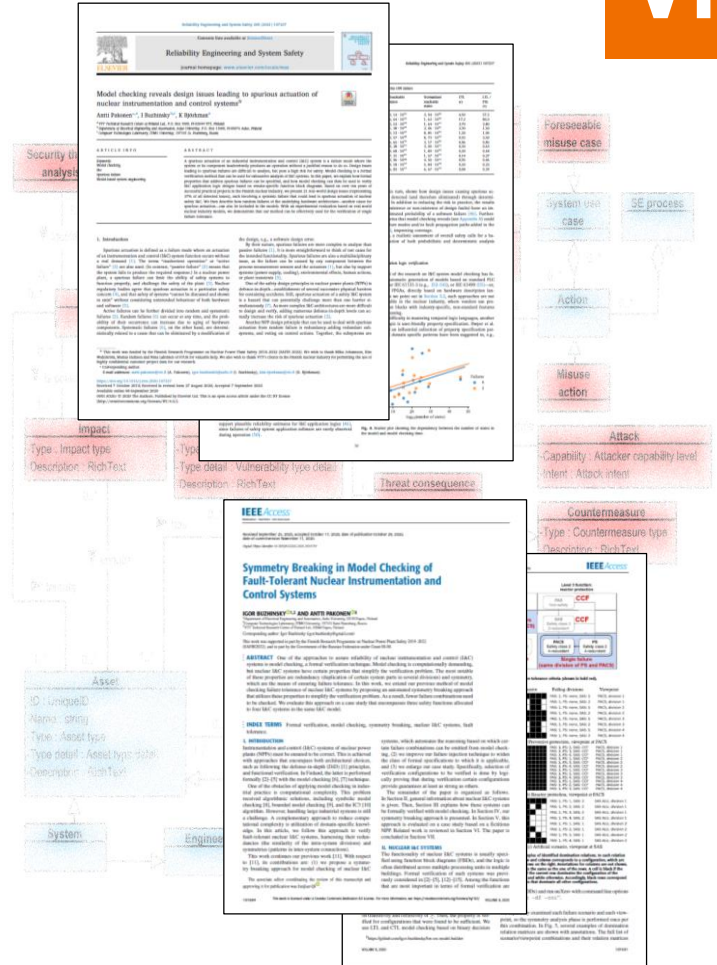


- OL3, Loviisa I&C renewal, Hanhikivi-1 functional architecture...
- **66 detected design issues!**

Results 2019 - 2020

- 4 scientific journal articles
- 8 conference papers
- 3 research reports

- 1 doctoral thesis
- 1 master's thesis



bey⁰nd

the obvious

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