



iNTeg-Risk: Early Recognition, Monitoring and Integrated Management of Emerging, New Technology Related Risks

iNTeg-Risk Kick - Off Meeting

GDF SUEZ Presentation & Participation in iNTeg-Risk

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GDF SUEZ, a new European energy group (July 22nd)

- Gaz de France + SUEZ = GDF SUEZ, a large “utilities” group, employing ~200 000 people:
 - **Gas**: E&P, LNG, transmission, distribution
 - **Electricity**: production (nuclear, hydro + renewables, fossil, CCGT,...), transmission, distribution
 - **Energy services**
 - **Environment**: water supply & disposal, waste management
- GDF SUEZ is committed to R&D via its Research & Innovation Department:
 - **10 R&D units** covering its different activities, largest single one focused on the gas chain & renewable energies (CRIGEN)
 - **iNTeg-Risk**: Leader of SP1, of ERRA A3

Emerging Risks related to the Industrial Use of Automated and Un-manned Surveillance of Industrial Infrastructure – ERRA A3 in SP1

- New technology will be adapted / developed to fit the needs for extensive automatic surveillance of long distance transmission pipelines:
 - Automated image processing for threat detection
 - Drones for collecting images along the right of way - ROW
 - Evaluation of the public acceptance & regulatory compliance
 - Validation / demonstration of the technology on 10 km & 50 km flights in actual operational conditions
 - Efficiency evaluation of this automated surveillance approach
 - Dissemination of practical recommendations