

- » BOOST PERFORMANCE
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- » IMPROVE EFFICIENCY
- » INCREASE ADAPTIVITY
- » ENABLE BUSINESS TRANSPARENCY
- » ENSURE REGULATORY COMPLIANCE



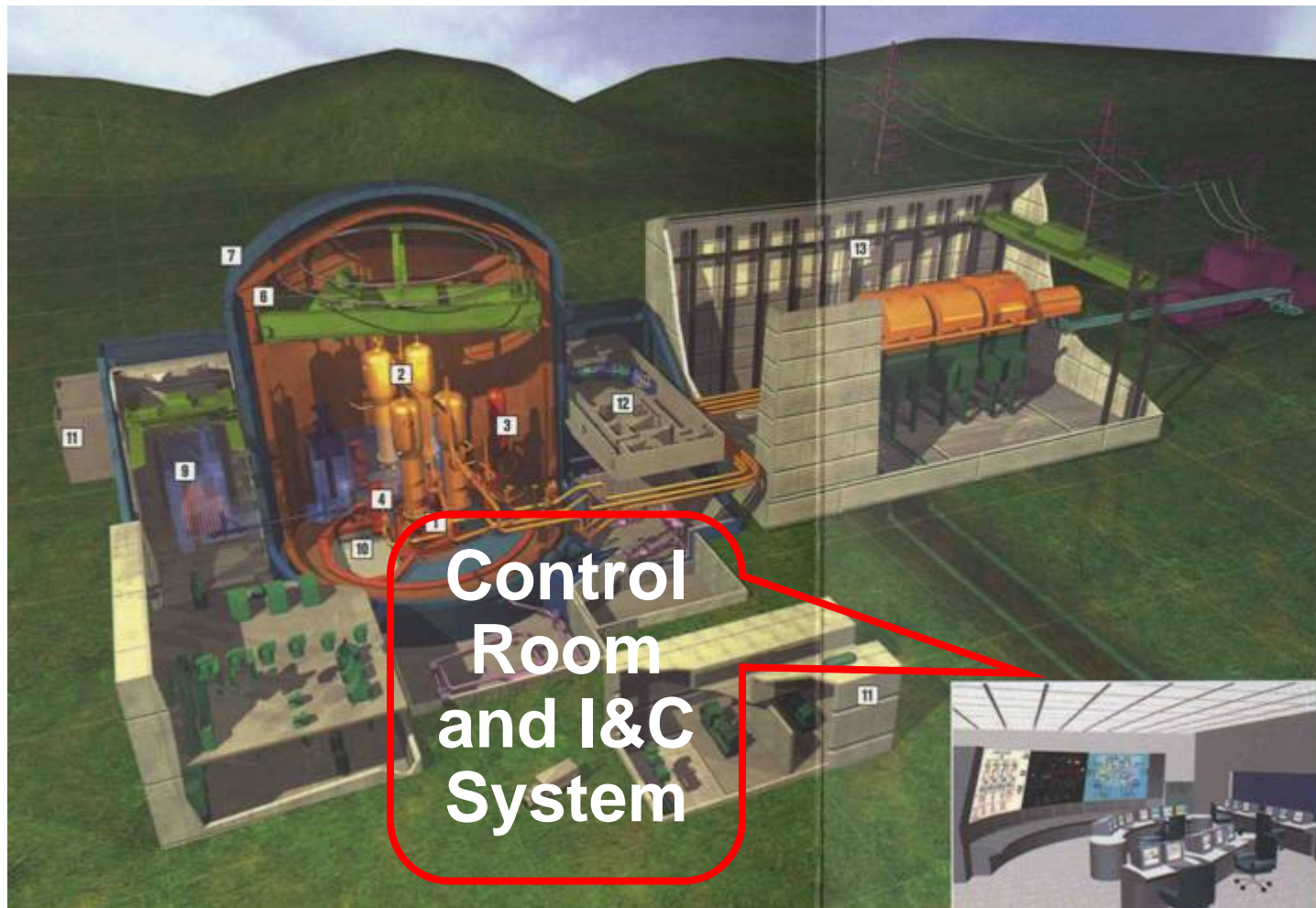
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Riding the Next Wave of Civil Nuclear Power

Jerome De Parscau Du Plessix - GTPC Manager - Client Partner EDF
December 2007

Atos Origin is positioned in the Nuclear I&C systems

Nuclear Instrumentation & Control solutions provide utilities with monitoring and command control systems for Nuclear plants



Nuclear I&C Market Size (TAM)



» Retrofit

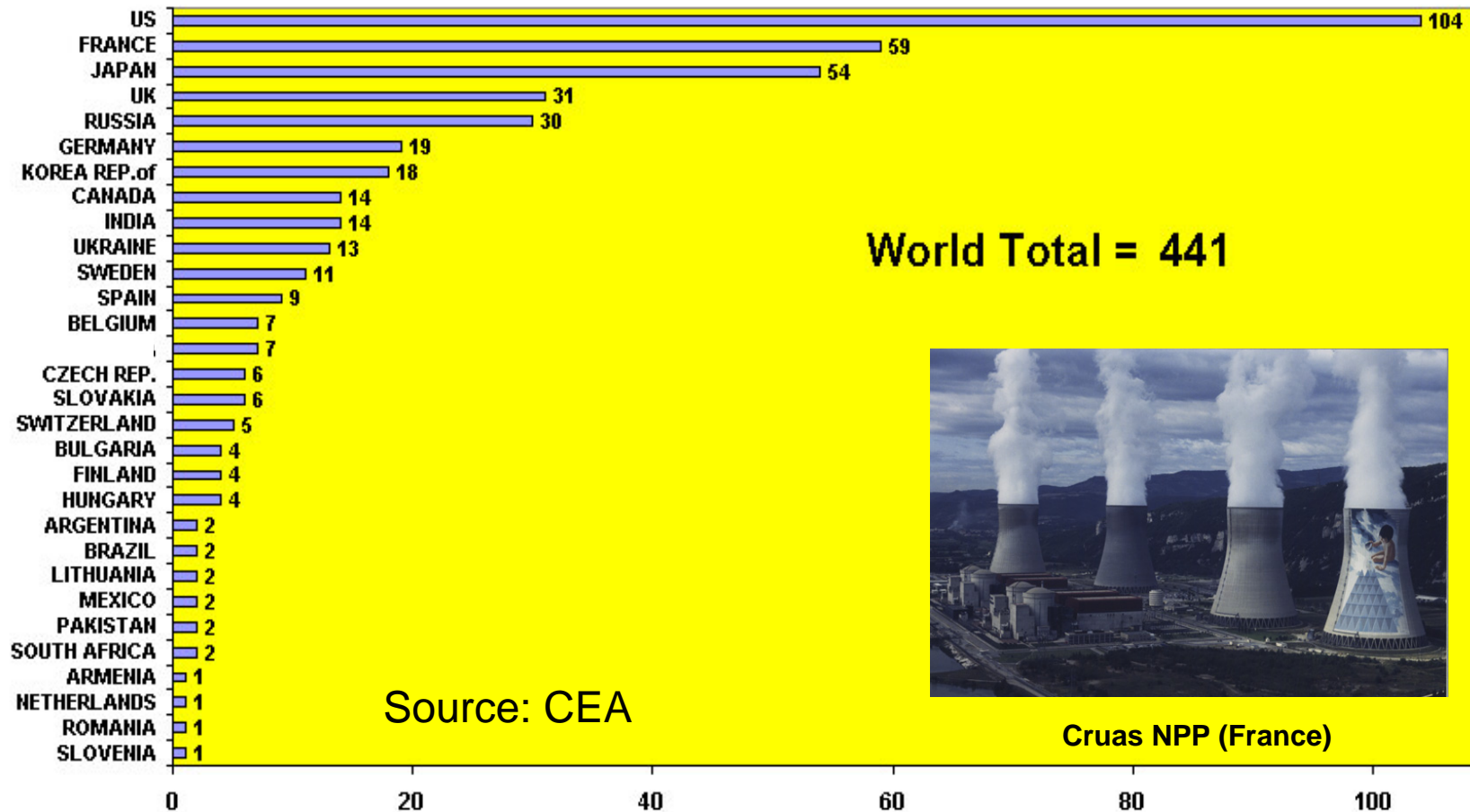
- 161 Units to be retrofit or stopped in the next 10 years
- Probably 15 units p.a. (ww fleet in operation: 441 units)
- Market size: 225M€/yr
- Atos Origin market share : 10%
- Latest project is Dungeness B (BE) - ongoing

» New build

- Forecast pace of capacity addition is 3 times higher (14 per year) than the pace during the last 15 years (4.5 per year)
- 6 new units p.a. in the next 5 years.
- Market size: 300M€/yr
- Latest project was Beloyarsk (Russia) - completed end of 2006

Nuclear I&C Market Size (TAM)

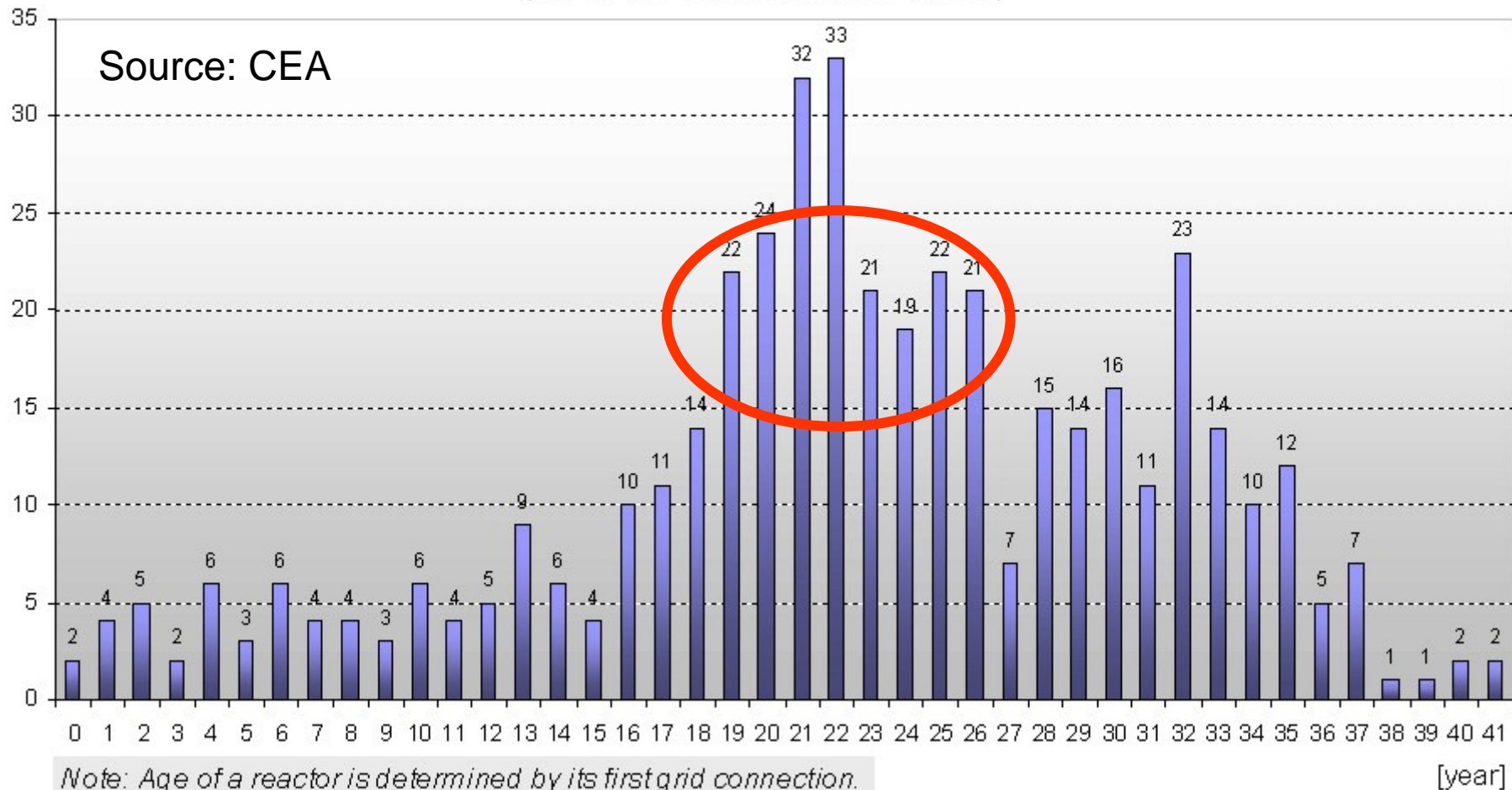
Number of Reactors in Operation Worldwide (as of 15 February 2003)



Huge opportunity for extending nuclear plant lifecycle



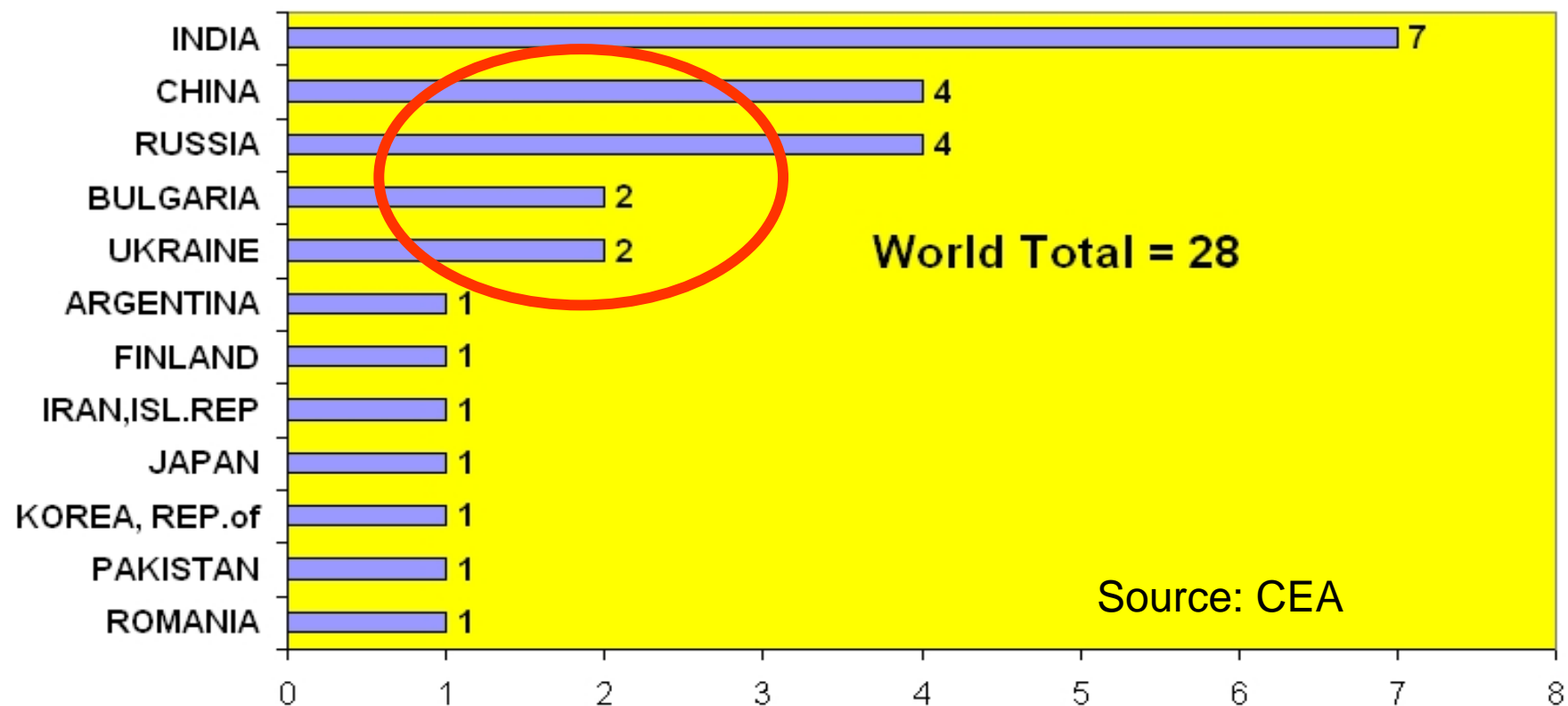
Number of Operating Reactors by Age
(as of 25 of November 2006)



Nuclear I&C Market Size (TAM)



**Number of Reactors under Construction Worldwide
(as of 20 of September 2006)**



Note: There were also 2 reactors under construction in Taiwan, China.

Atos Origin expertise in the Nuclear I&C



- Atos Origin has expertise going back to 1977: the first project was the upgrade of the monitoring system for the 1300MW French series.
- Atos Origin has also developed a unique computerized control system for the N4 EDF series.

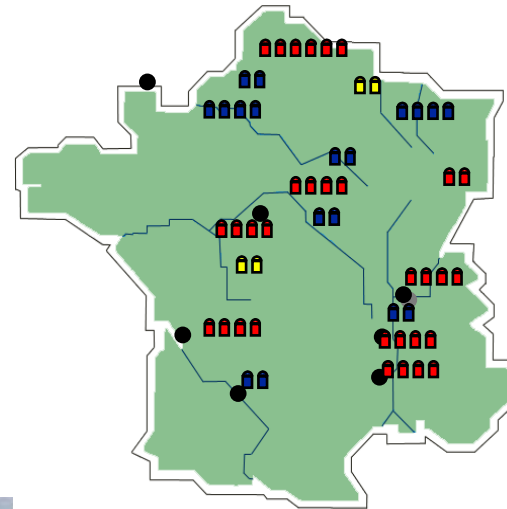
- 300 highly educated professionals, 60+ project managers
- 30 years of experience,
- 300 monitoring and control systems over 100 nuclear sites,
- 20 years partnership and the confidence one of the major European Utilities (EDF),
- CMMI 3: continuous practices improvement in order to turn clients vision into results.



Nuclear References in France



- I&C real-time solutions to operate 58 Nuclear Reactors (PWR) in commercial operation
- 19 Engineering and Training simulators
- Diagnostic tools applied to nuclear equipment



- First N4 reactor connected to the grid in July 1996
- The N4 series (4 reactors, 1450 MW each one) based on one single project, as defined by Electricite de France.

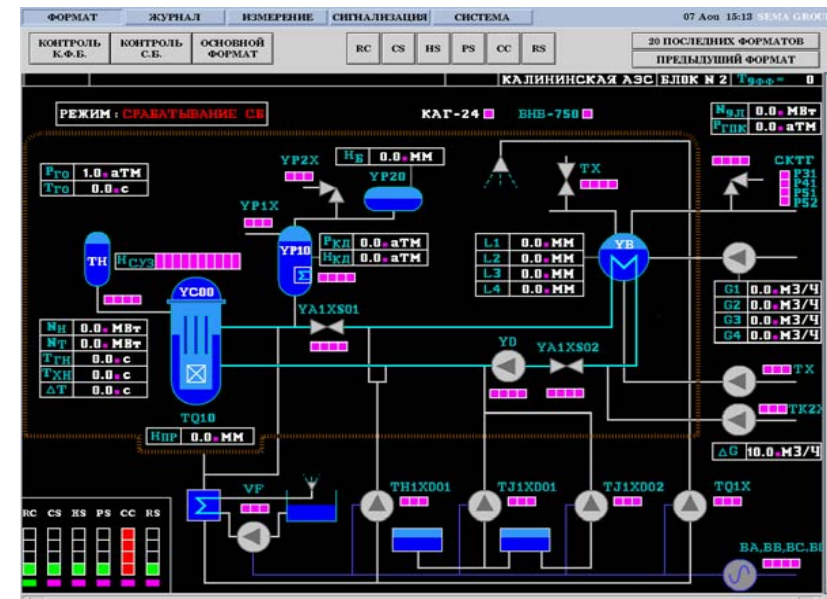


... and abroad



I&C systems used by operators to monitor nuclear units in:

- **RUSSIA**
 - Kalinin NPP (prototype - unit 2)
 - Beloyarsk NPP (BN-600)
 - Kalinin 3 Audit of I&C solution
- **PEOPLE'S REPUBLIC OF CHINA**
 - Daya Bay (2 units, 900 MW)
 - Qinshan (1 unit, 300 MW)
 - Ling Ao (2 units, 900 MW)
- **UNITED KINGDOM**
 - Dungeness B (2 units) I&C Renovation



Kalinin SPDS (Russia)

EDF

An innovating I&C system for nuclear plants



Business Challenge

- Develop a reliable digitized I&C system for 4 units (N4) with very high safety process
- Develop a full scope simulator for operator's training and catastrophic recovery process improvement,

Our Solution

- Develop the 1st fully computerized I&C system: ADACS
- Develop an innovative catastrophe recovery process to display the right alarms for the operator to react quickly and efficiently
- Develop a complete “off line” system based on ADACS.

EDF

The best in class return on experience



Computerized Operation System : KIC

Feedback on availability

✓ **Availability meeting expected values**

	V5R	V6	Expected
KIC Availability	99,972%	99,996%	99,985%
3 WS Availability	99,930%	99,96%	99,950%
4 WS Availability	97,108%	97,29%	99,600%

✓ **WS availability improvement to be achieved with V7**

Cumulated operation time of KIC V5R version	Cumulated operation time of KIC V6 version until 01/01/2003
3357 days	3604 days



Summary



- » 30 years of I&C SI experience in a growing business where expertise is rare
- » Independent from hardware manufacturer thanks to an open computerized command system
- » Unique return on experience on availability, a key factor for Nuclear Authority
- » Long term partnership with EDF, a key player worldwide in the nuclear operation
- » Good mix of Nuclear culture and capacity of Global Integrator of complex projects

This market offers a unique opportunity to support Atos Origin's growth in the next 3 years

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Any Questions?