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EADS and Erudine Behaviour Engine

A standard way to manage the business rules within EADS Defence market

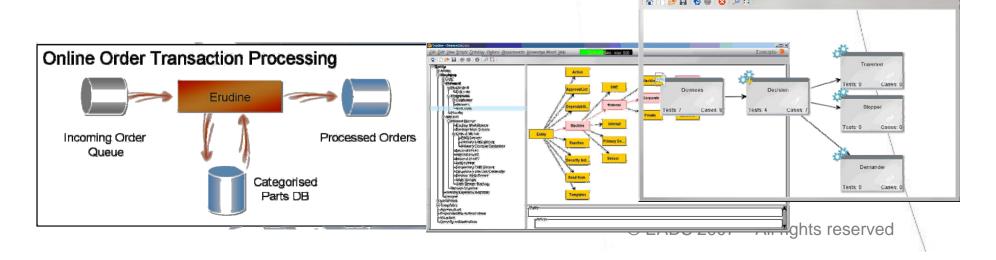
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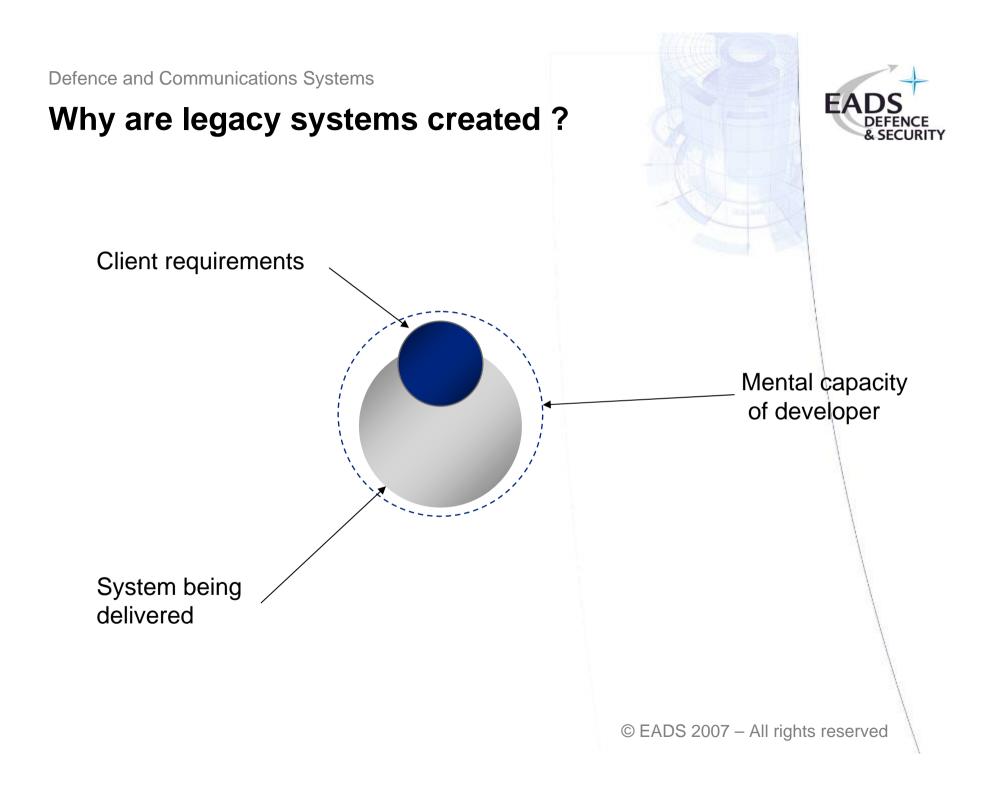
What is Erudine Behaviour Engine?

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Requirements Knowledge Model Help Knowledge Madel

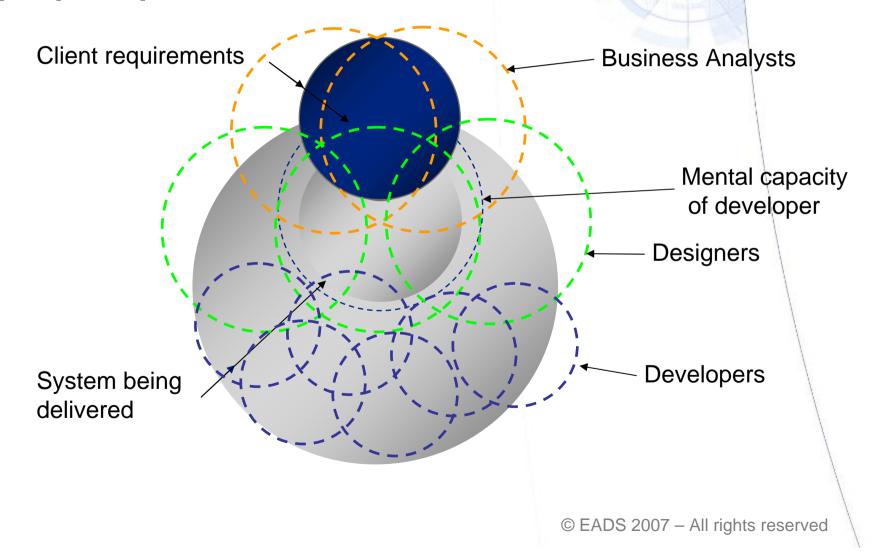
- Erudine Behaviour Engine is a revolutionary way of
 - capturing the behaviour of systems to reduce large elements of software development
 - automate the work carried out by IT developers
- Erudine Behaviour Engine addresses complex systems development that represent areas of problems and risk
- EADS is now embedding Erudine technology within projects – teaching the business rules







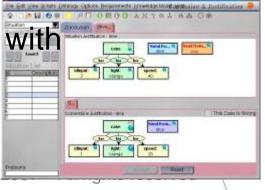
Larger & more complex projects require more people equals more communication



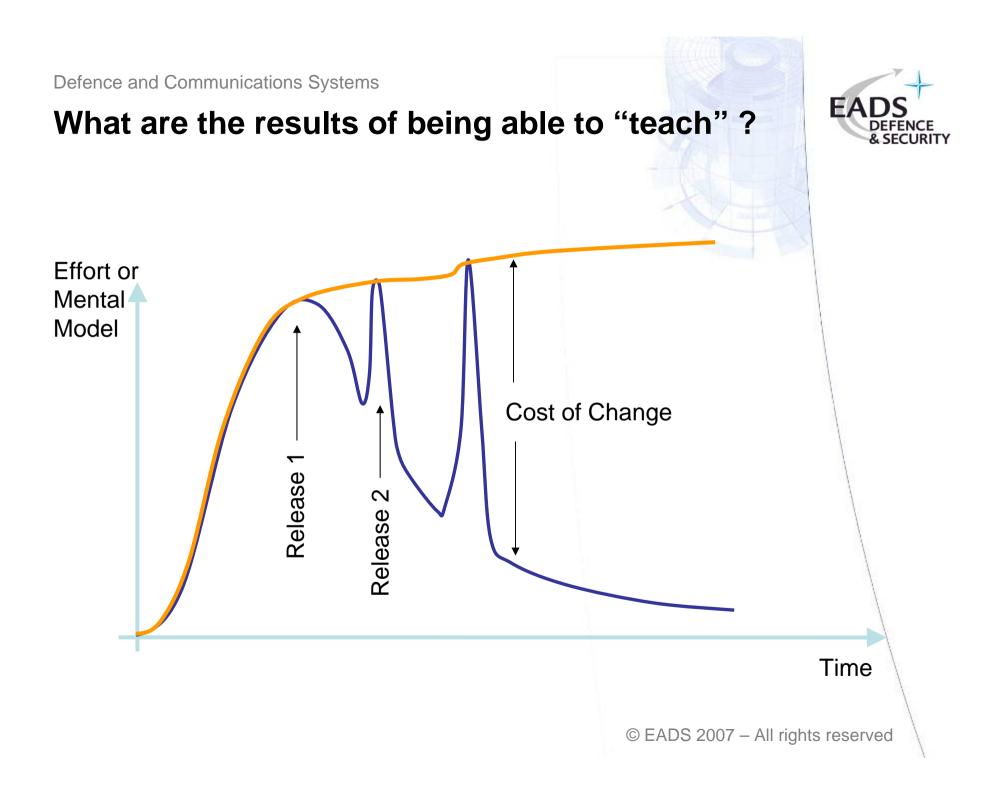
Key technology aspects of Erudine Behaviour Engine

- Innovative rules management, ordering and processing
- Data and rules represented as graphs
 - Enabling new methods of processing data
- Captures Tacit knowledge (i.e. use cases that are made from many rules) and uses corner cases to interact with the expert.
- Intuitive graphical user interface and graphical data representation operating in near real-time;
 - Enabling new ways of interacting with a development system.
- Automatic impact analysis and interaction with corner cases





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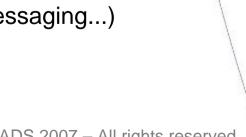
How to use EBE for managing business rules?

- To capture the business rules
 - Based on examples (case based reasoning)
- To ensure consistency
 - Automate the work
 - Ability to test under simulations
- To check the compliance to the business policies
 - Or to any requirement document
 - Or within groups of experts
- Applications are developed
 - by embedding the automation of business rules
 - operational people can teach the system what to do
- Update of the business rules
 - Integration of operational feedback
 - As soon as the regulation changes



Interoperability

- Business interoperability
 - Tacit knowledge is captured and reusable
 - Iterative capture update between projects
 - Outputs are
 - · Implementation
 - Requirement documents
 - Corner cases
- Technical interoperability with other systems is ensured both :
 - in design phase for standard requirements management (Doors,...)
 - in implementation phase by mean of standards for development (databases, java, web services, messaging...)
 - in acceptance tests (Doors, test suite)





Example of application: Serket SEcuRity KEeps Threats away

- Security of places and public events
 - data coming from discrete devices
 - automatically correlated and analysed
- Demonstrate the new architectural principle
 - Open security platform for public places and events
 - Complex Event Processing
- EADS Threat Assessment Module
 - recognize situations
 - to correspond to threatening behaviours
 - view and control the decision process
 - http://www.itea2.org/



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Thank you for your attention

Questions?

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