

CORAS is committed to supporting international industry and academic collaborations both in its core R&D and its application domain areas.

We are actively seeking opportunities for cooperation with technology providers, system owners and end-user organisations within the application domains of e-commerce and telemedicine. Government and business end-users or platform providers can take advantage of the CORAS technology in order to give their mission critical risk assessment a more competitive edge. Co-operation with technology providers would enable all parties concerned to benefit from the further development of the CORAS tools and methods.

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# CORAS

## Risk Assessment of Security Critical Systems



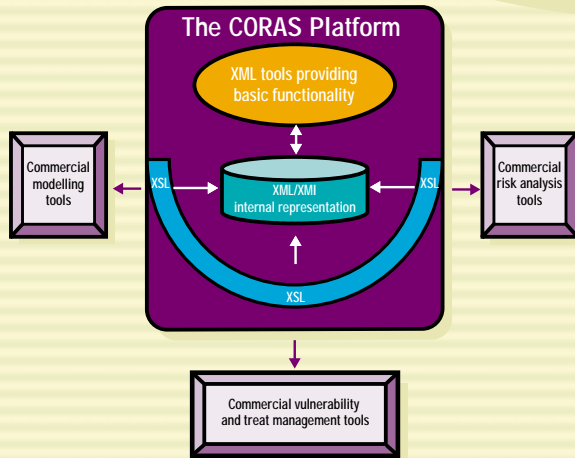
Why Risk Assessment?  
Because ...

## WHY RISK ASSESSMENT?

Today's systems are becoming ever more complex. Tele-medicine demands high speed but secure transfer of personal information. E-Business requires customer confidence.

## WHY MODEL-BASED RISK ASSESSMENT?

The model-based approach improves the quality and effectiveness of the risk assessment process by facilitating precision, communication and interaction between stakeholders and reduces maintenance costs by increasing the possibilities for reuse.



## CORAS & THE MODEL-BASED APPROACH

The model-based approach provides a uniform, streamlined approach for each stage in a risk assessment project, from context identification, through risk assessment, analysis and treatment to presentation of the results.

## HAS CORAS ALREADY BEEN APPLIED?

Yes! The CORAS framework has already been successfully applied in pilot Field Trials in the important areas of Tele-Medicine and e-Commerce.

## CORAS - The Technology

CORAS delivers a **tool-supported framework** whose important components are:

**A model-based risk assessment methodology** integrating techniques and features from partly complementary risk assessment methods as well as patterns and methodology for UML (Unified Modelling Language) oriented modelling.

**A risk documentation framework** based on the ISO standard RM-ODP (Reference Model for Open Distributed Processing).

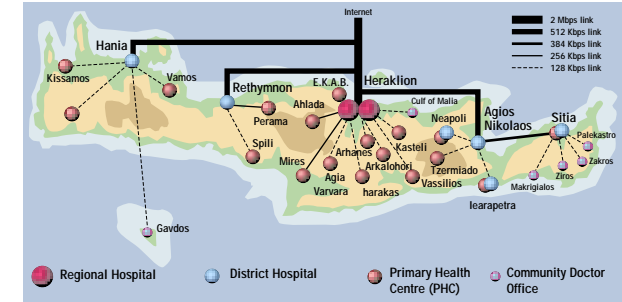
**A risk management process** based on the international security risk management standards AS/NZS 4360 and ISO/IEC 17799.

**An integrated risk management and systems development process** based on the UP (Unified Process) for information systems development, and integrating several complementary widely applicable risk assessment methods.

**A platform for tool-inclusion based on XML** (eXtensible Markup Language) technology.

## CORAS in Telemedicine

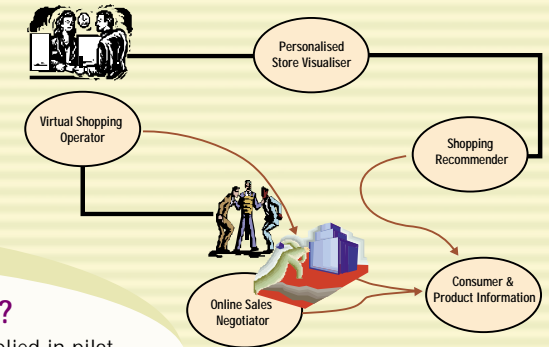
CORAS is being applied to the regional health network **HYGEIAnet** that links hospitals and public health centres in Crete. CORAS provides the security assessment of the Cretan health care structure that consists of a number of geographically separated health care centres in a hierarchical organization, and offers a process of identification and assessment of potential solutions.



## CORAS in E-Commerce

CORAS is being applied to the electronic retail market subsystem of an e-commerce platform, developed in another European Union IST project. The security assessments focus on the user authentication mechanism,

the secure payment mechanism and on the use of software agents for accomplishing specialised purchasing tasks, offering a process for identifying and assessing potential solutions.



## WHO BENEFITS FROM CORAS?

- The Application Owner** - CORAS provides more reliable assessment results at reduced costs.
- The Risk Analyst** - CORAS improves the effectiveness of risk assessment by integrating widely used risk assessment techniques into a single tool-supported framework.
- The System Designer** - CORAS facilitates the early discovery of vulnerabilities and supports the tracing of the causes of security faults