

# EMFASE



## Empirical Framework for Security Design and Economic Trade-off

F. Massacci, F. Paci (university of Trento), A. Omerovic (SINTEF), A. Tedeschi (Deep Blue)

#### **Research Questions**

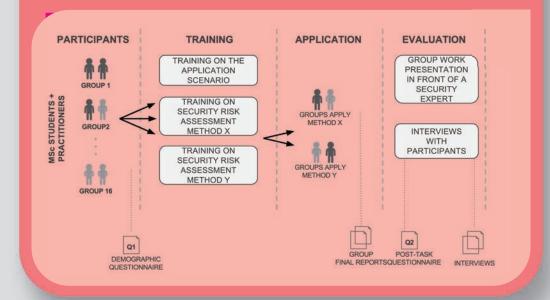
How can SESAR stakeholders **identify** and **select** appropriate **Risk Assessment Methods** for ensuring **Security** in the complex ATM domain?

What are ATM stakeholders' **needs** and **selection criteria**, and which Risk Assessment Methods could fulfil those needs?

How can we know that the Risk Assessment Method applied **really works**? Why does one Risk Assessment Method work better than others, in given circumstances? Would additional expensive Security analysis and measures **be worth the cost**?

### Approach

EMFASE will answer the above questions by applying different risk assessment methods on different application scenarios e.g. **Airport Collaborative Decision Making** and **Remotely Operated Tower** and by evaluating them with respect to their **performance**, **security impact**, **usability**, and **economy**.



#### **Expected results**

The EMFASE project main results will be:

a) A **Framework for empirical evaluation** of security risk assessment methods

b) **Guidelines** to help security experts to select security risk assessment methods

c) **Causal explanations** of why selecting a risk assessment method in given circumstances will be the best decision.





