USE CASES

Case A: Anadolu's Airport Infrastructures

An airport is a complex socio-technical system with advanced infrastructures, skilled operators, complex procedures and rules... Airports are particularly weak with respect to small attacks to different sub-systems. Delayed or wrong decisions can have serious consequences and lead to the critical disruptions. SECONOMICS is searching cost-effective and satisfactory solutions for airport security policy and management.

Case B: National Grid's UK Electricity Transmission Grid

National Grid owns and operates the electricity transmission grid in the UK which is considered a critical infrastructure of the country. They are responsible for the bulk transmission of electricity from generators to every region of the UK. Incentivising critical infrastructure operators to be cyber secure is crucial and SECONOMICS is investigating which regulatory frameworks would work best for this type of infrastructure.

Case C: Barcelona urban public transport

The underground metro of Barcelona (TMB) is one of the world's most modern and well-designed mass transit systems. Any news appeared in mass media about any incident on the metro impacts directly to the citizens' perception of security in the city. Based on this use case, SECONOMICS works in the development of adequate standards and procedures for the harmonised implementation of solutions that will be valid at European level.

Project Partners

UNIVERSITÀ DEGLI STUDI DI TRENTO

DEEPBLUE consulting&research

Fraunhofer

Universidad Rey Juan Carlos

UNIVERSITY OF ABERDEEN

Durham University

TMB Transports Metropolitans de Barcelona

Atos

SECURENOK

SOÚ Institute of Sociology of the Academy of Sciences of the Czech Republic

nationalgrid

ANADOLU UNIVERSITY

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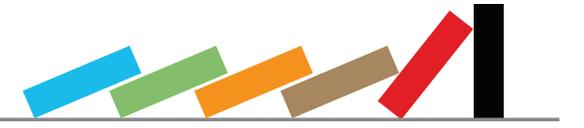
SECONOMICS

Socio-economics meets Security
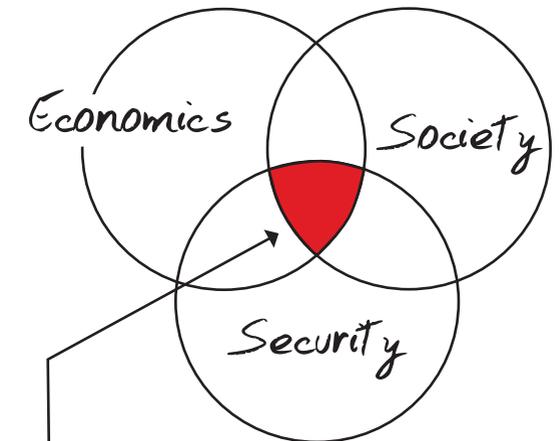
Economics — Society — Security — Seconomics

SECONOMICS synthesizes sociological, economic and security science into a usable, concrete, actionable knowledge for policy makers and social planners responsible for citizen's security

www.seconomicsproject.eu

What is SECONOMICS ?

How do policy-makers decide on security policies, regulations and laws for regional transport, aviation and critical infrastructure? How should society choose between the regulatory and coordination options available to governments and supra national unions? The SECONOMICS project brings together security-practitioners, economists, sociologists and engineers to generate tools for determining optimal policy approaches.

How is it done?

SECONOMICS identifies security threats in transport - air and urban and super urban metro - and energy sources in three different use cases. The project seeks to explore the challenges of pan European coordination in security.

SECONOMICS impact

SECONOMICS will provide assessment on the optimal mechanisms for mitigation of the future and emerging threats that may arrive long after the project has been completed, with rigorous modeling within the policy domain.

SECONOMICS will produce a generalized policy "toolkit" that will assist decision makers in identifying and reacting coherently (within the appropriate social context) to threats.

SECONOMICS will be driven by a common but diverse set of modelling tools and utilizing recent advances in modelling technology that seamlessly transverses the social, economic and technological domains.

SECONOMICS approach

SECONOMICS is taking into account complex organizational issues in crisis decision making, safety and economics considerations. The contribution to the project is to develop and further the state of the art in modelling security problems in a technological and socioeconomic context and then applying state of the art risk assessments and analysis of the social context to develop optimal policies.

Policy + regulation

Coordination

Measures Preemptive/ Reactive

Impact on Citizens, society + government

Critical Infrastructure

SECONOMICS

Potential Targets

Emergent Threats

Air Transport

Local and Regional Transport

Benefits

Costs

Social Acceptance