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# Secure Societies in H2020 & Fraunhofer priorities & views in EU Security Research



# Fraunhofer

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H2020 Conference

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# Horizon 2020 Secure Societies

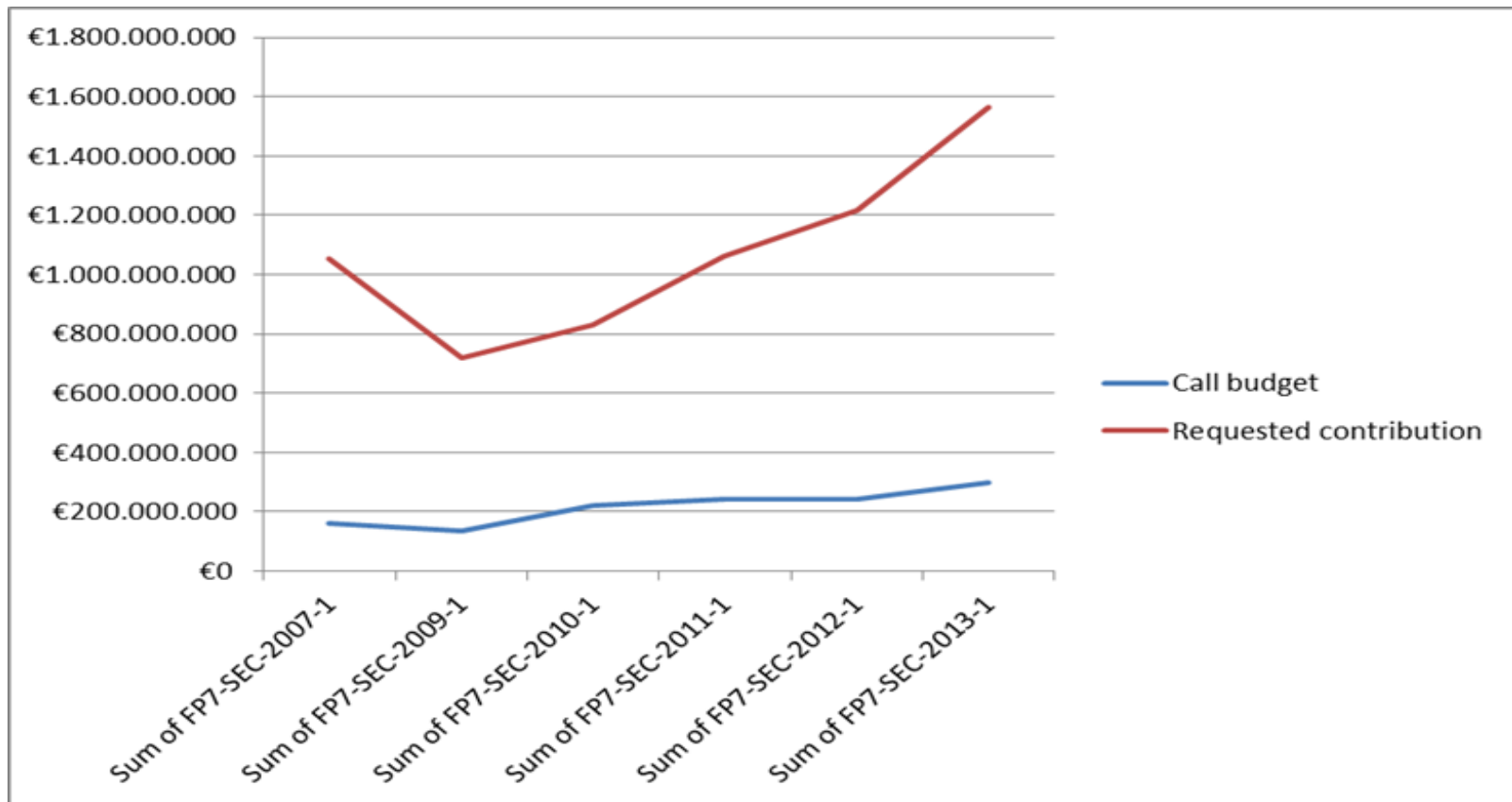
Policy and Research in security  
DG Enterprise and Industry

# Security research & the 7<sup>th</sup> Framework Programme (FP7)



- FP7-Security (2007-2013):
  - ✓ 1,400 Mio EUR (20% to SMEs)
  - ✓ More than 250 projects and 2,500 participants

## FP7 Security budget vs. requested EC contribution



# **"Secure Societies" in Horizon 2020:**

## **Specific mission areas**

- 1. Fighting crime and terrorism**
- 2. Strengthening security through border management**
- 3. Providing cyber security**
- 4. Increasing Europe's resilience to disasters (including critical infrastructure protection)**
- 5. Ensuring privacy in the Internet and enhancing the societal dimension**
- 6. CSDP related issues ('dual-use' – Civil focus)**
- (7. Other topics related to Europol-Cyber, JRC-AvSec, Galileo and Space surveillance)**

## Quo vadis?

- Lisbon Treaty, EU Strategies, external dimension
- **Conclusion:**
  - Supports EU internal and external security policies
  - Supports the EU industry to be competitive
  - Keep the orientation towards security missions
  - Strengthen the involvement of the end-users
  - Closer coordination with EU agencies (incl. EDA, but only civilian focus)
  - Taking more into account the societal dimension

# Communication on the Security Industrial Policy – COM(2012)417

**Action Plan** for an innovative and competitive  
Security Industry

## Objectives:

- 1) Overcoming the **fragmentation** of the EU security market
- 2) Reducing the gap **from research to market**
- 3) Better integration of the **societal dimension**

- ***11 Dec. 2013 publication of Work Programme foreseen***  
(new participants portal for H2020)



December						2013
SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- ***Call open 25 March 2014***
- ***Call closed 28 Aug 2014***
- ***Info on outcome of Evaluation end Oct 2014***
- ***Signature of GA starting early 2015***



## ***When writing a H2020 proposal.....***

- Strong link to EU policy initiatives
- „Impact“ section is very important  
(weighted by factor 1.5, considered  
first when scores are equal)

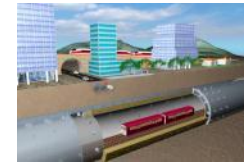
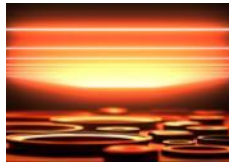
# Evaluation Process

Chain of individual, consensus and panel review maintained. But changes w.r.t. FP7:

- Dealing with multi-disciplinary/sectoral proposals
  - New expert profiles, new blood; **Call for experts**
  - Robust rules on expert turnover;
  - More experts per proposal;
  - Clear procedures for cases where experts disagree
- Dealing with 8 month TTG
  - Proposals strictly evaluated on their own merit  
**No recommendations for substantial changes**
  - More multi-step (stopping evaluation when threshold failed)
  - Fast and simplified procedure for SME instrument (i.a.)

# Fraunhofer – Applied Scientific Research from A to Z

- **66 institutes** and independent research units
- More than **22,000 staff**
- **€ 1.9 billion annual research budget** (2012)
  - **Approx. 2/3: contract research** on behalf of industry and publicly funded research projects; 1/3: institutional funding



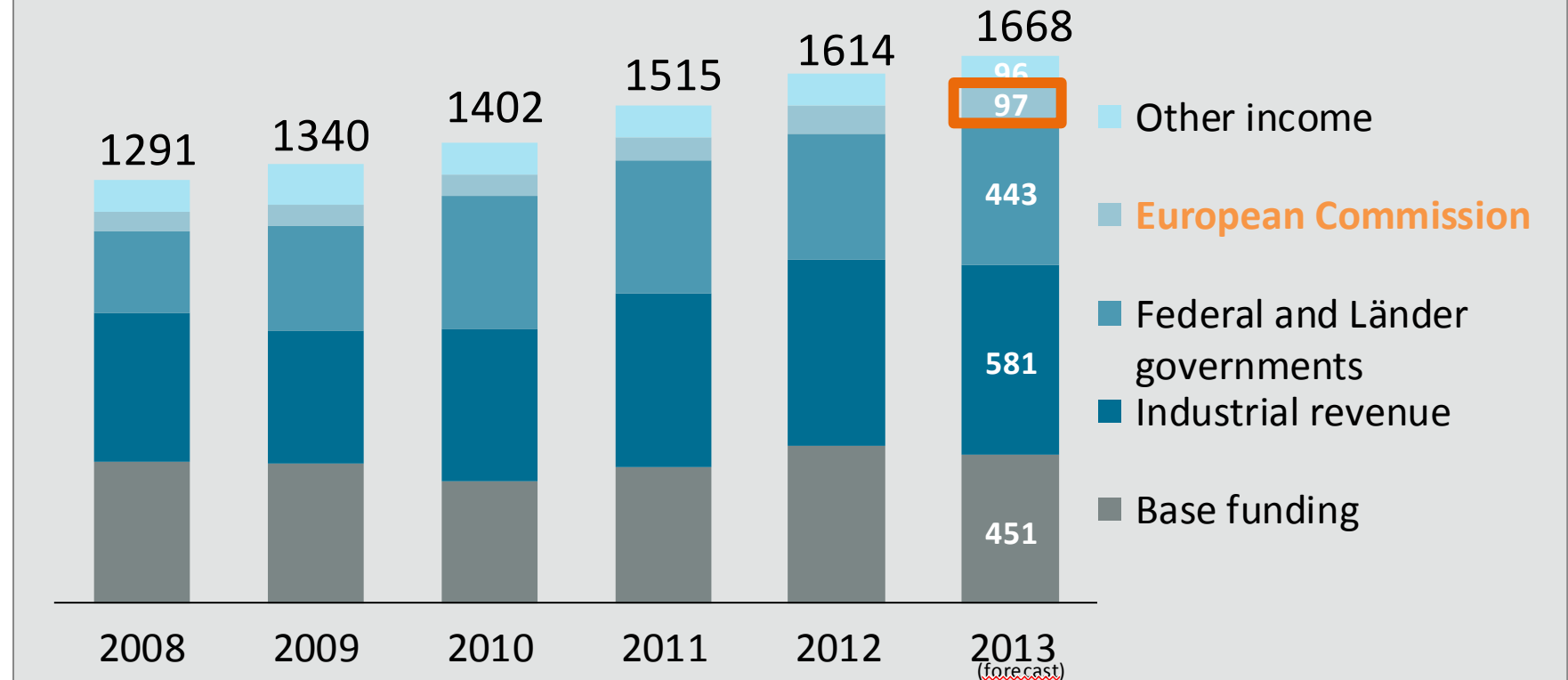
## Pooling expertise - the Fraunhofer Groups:

- |                    |  |
|--------------------|--|
| ■ ICT              | ■ Production                           |
| ■ Life Sciences    | ■ Materials and Components – MATERIALS |
| ■ Light & Surfaces |  |
| ■ Microelectronics | ■ <b>Defence and Security (VVS)</b>    |

# Why do we participate in EU research?

## Contract research

2008 – 2013 in € million



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# Why are we so ‘successful’ in EU research?

- Contributor of excellent research
- Economies of scale
- Functioning know-how and technology transfer (*more or less ...*)
- Vast national and international networks
- Participation in many (successful) projects leads to many more new project opportunities

**=> EU research as a ‘force multiplier’!**

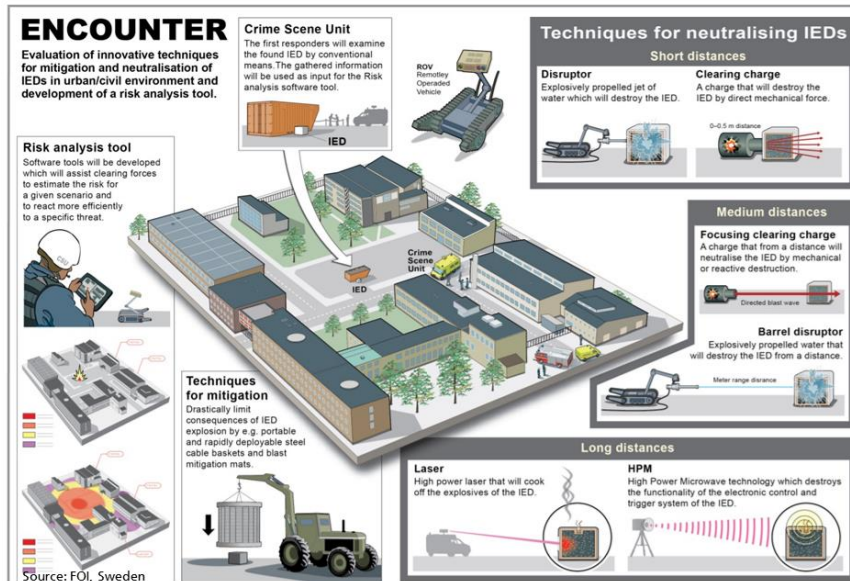
# Example 1: EU research as multiplier – (C)IP

## Safety and Protection of built Infrastructure to Resist Integral Threats – SPIRIT (CP)

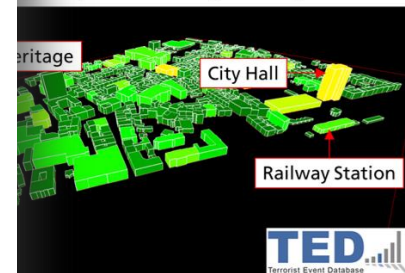
### VITRUV: Vulnerability Identification Tools for Resilience Enhancements of Urban Environments



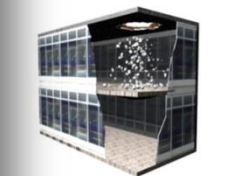
### ENCOUNTER: Explosive Neutralization and Mitigation Countermeasures for IEDs in Urban/Civil Environments



city analysis based on e.g. building costs



Handling the tool on a palmtop



2010

2011

2012



## Example 2: Maritime Surveillance

PASR 2005

Preparatory Action for Security Research  
(PASR 2005)

**SOBCAH** SURVEILLANCE OF BORDER CO

**AMASS**

Autonomous Maritime Surveillance System

**EUROSUR**

Protecting the Schengen  
external borders

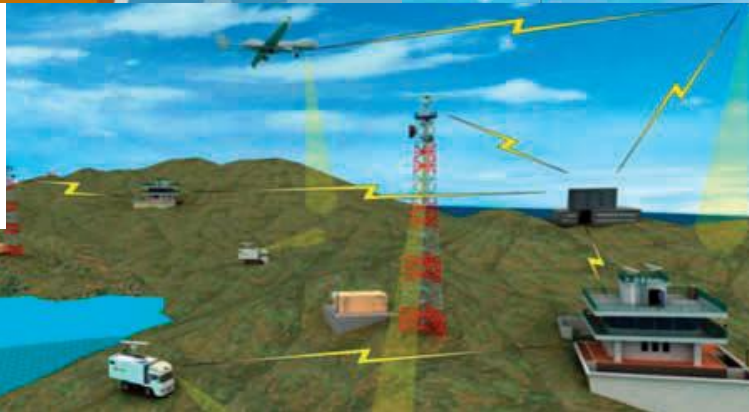
Protecting migrants' lives

**WIMAS**

>> Maritime Traffic Control

>> Anti-Pollution

>> Anti-illegal immigration



Both 2008

2011

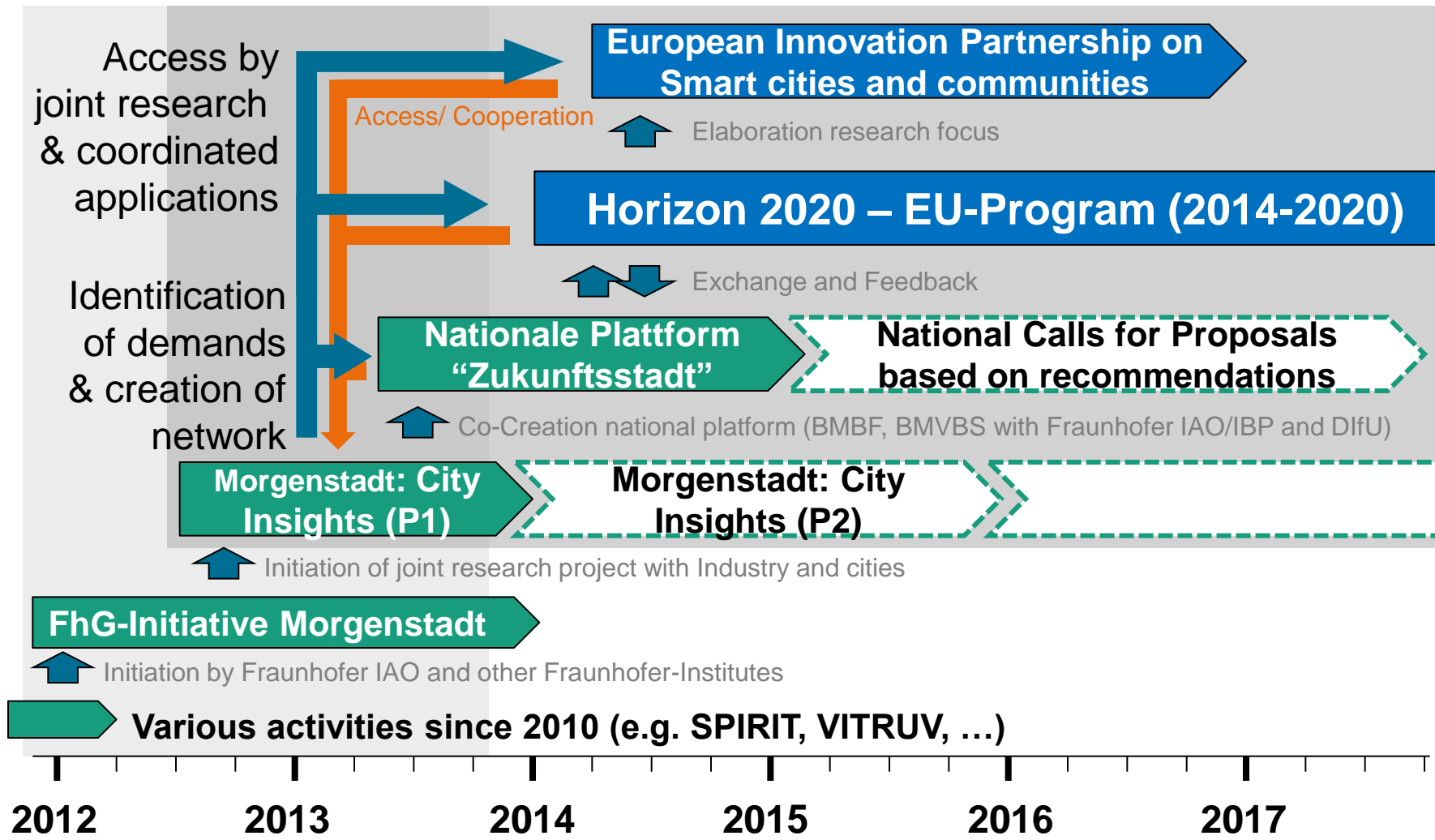
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# Priorities in EU Security Research

- **Resilient Cities, Infrastructures and Citizens,**
  - **SECUR-ED, EDEN, DRIVER, SPIRIT, VITRUV, COPRA, STAR-TRANS, ARGUS 3D, ACRIMAS...**
- Resilience of socio-technical systems,
- **Cyber security,**
- Sensor networks and systems for first responder communities,
- Autonomous assistance systems for complex security environments
  
- In border management: ABC systems (FASTPASS, XP-DITE projects)



# Example: Fraunhofer “Morgenstadt” lighthouse project



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# Crisis Management: ACRIMAS – DRIVER – H2020



# EARTO: Eurotech



- **EARTO:** European Organisation of Research and Technologie Organisations, [www.earto.eu](http://www.earto.eu)
- **EUROTECH:** grouping at Chief Executive/President level of the larger RTOs in Europe and meets under the auspices of EARTO
- **EUROTECH-Security Working Group:**  
9 active members from 8 countries  
–ARC, CEA, FOI, Fraunhofer, Onera, Sintef, Tecnalía, TNO, VTT, DGA and JRC  
- Proposal success rate of ca. 30%
- **SMI2G:** Security Mission Information and Innovation Group: Eurotech & ASD: more than 300 participants, brokerage, **23-24 January** (Brussels), registration at [www.tno.nl/smi2g-2014](http://www.tno.nl/smi2g-2014)

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# Contacts

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