

FP7 Security Theme

Simon Nare

Assistant NCP: **FP7 Security Research Theme**



European Commission
Enterprise and Industry

Why Security, Why South Africa?

- We have shared security interest/benefit with Europe
 - Crime, cyber, borders, infrastructure, citizens, disasters, ...
 - Strong RSA defence & security related industries
 - Building EU networks is useful regardless of FP7 funding success
- We have researchers and research capacity to offer
 1. Surveillance, interoperability, IEDs, criminology, ...
 2. Systems integration, testing, evaluation, ...
 3. Research facilities: explosives, radar, ...
 4. We have applications and users: borders, police, ...
 5. We can include wider African collaboration

Content today:

- 1) FP7 and Security Policy context
- 2) Work Programme 2013 (advance draft)
- 3) Hints for good proposals
- 4) South African NCP support

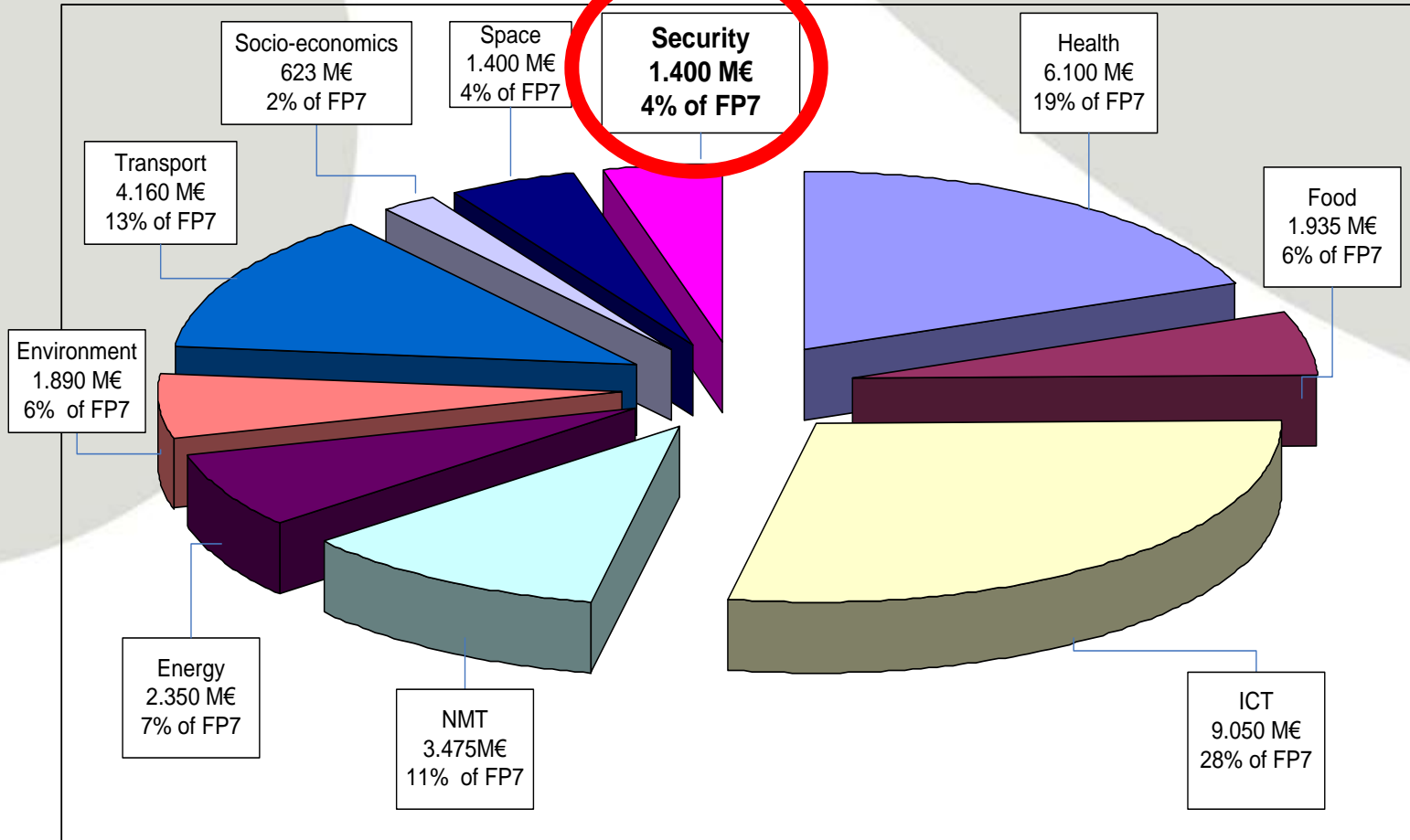
(1) EU FP7 R&D policy objectives

- Contribute to the setting up of a **European Research Area (= collaboration)**,
- Support the implementation of EU security **policies**, and
- Support the **competitiveness** of the European Industry

↔ *Primarily about Europe, but includes mutual benefit when working with international partners*

BUDGET

FP7 Cooperation Programme: 32.413 M€ The 10 Themes



Activities of the Security theme

Security missions / activities

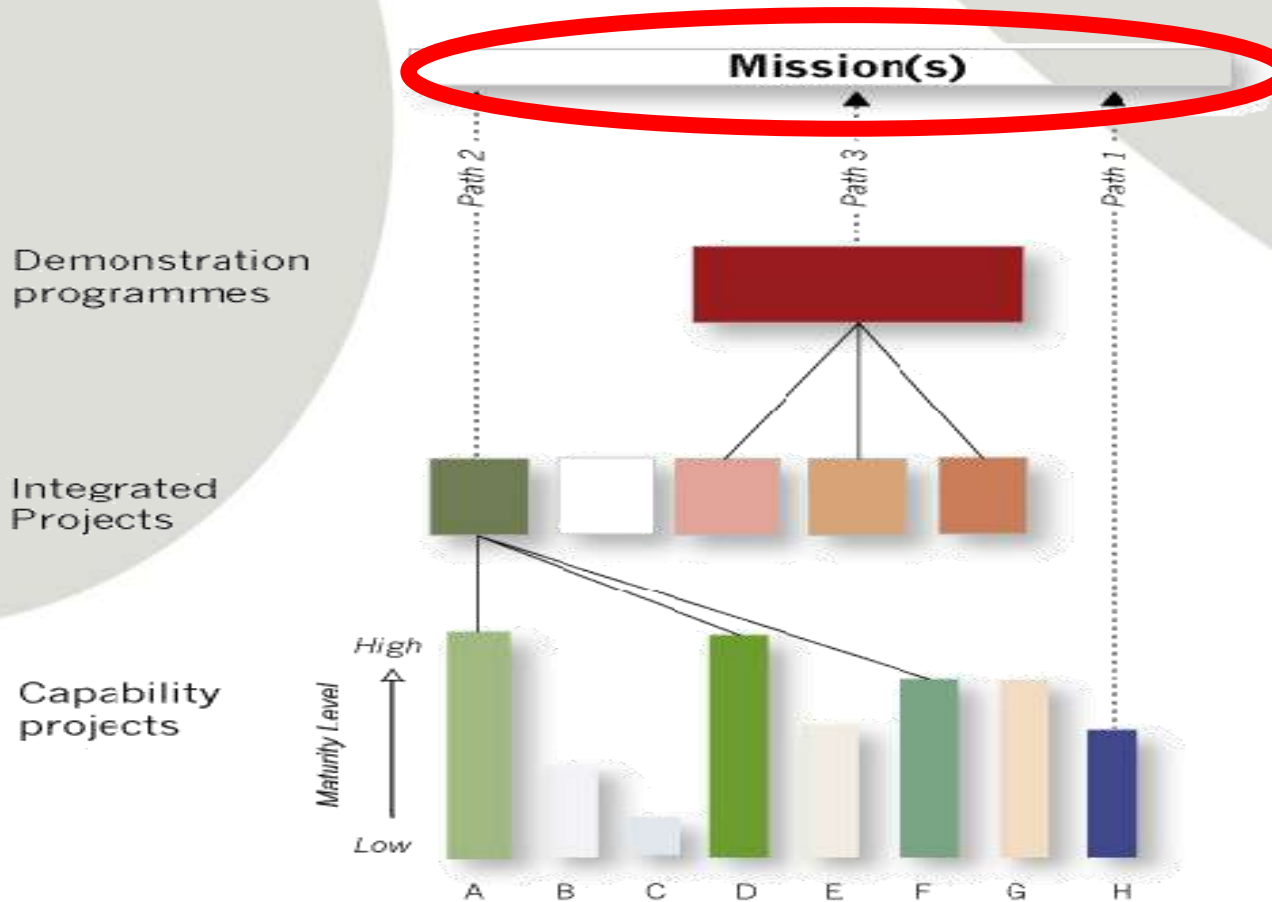
1. Security of citizens
2. Security of infrastructure and utilities
3. Intelligent surveillance and border security
4. Restoring security and safety in case of crisis

Cross cutting activities

5. Security systems integration, interconnectivity and interoperability
6. Security and Society
7. Security Research coordination and structuring

Security Research Strategy

Security research is always **mission driven** ⇒ involves end-user



Project types

Capability projects (CPs):

- **Aim:** building up and/or strengthening security capabilities required in the four security missions
- Typical Duration: 2-4 Years

Integration projects (IPs):

- **Aim:** mission specific combination of individual capabilities providing a security system and demonstrating its performance
- Typical Duration: 3-4 Years

Demonstration Phase I+II projects:

- **Aim:** preparation and then technically implement the system of systems demonstration
- Typical Duration: 1 Year and 3-4 Years

From calls to projects

Call1 (2007-2008)	156 million €	48 projects
Joint Call SEC-INFISO	20 million €	9 projects
Call 2 (2009)	117 million €	32 projects
Call 3 (2010)	209 million €	40 projects
Call 4 (2011)	221 million €	54 projects
Call 5 (2012)	241 million €	
Call 6 (2013)	± 300 million €	

Project descriptions are available on

http://cordis.europa.eu/fp7/security/projects_en.html

Security WP specific issues (1)

- **Multidisciplinary and mission-oriented** research
 - The multi-purpose nature of technologies is encouraged
 - **'Dual use' technology** (both civilian and defence applications) might be covered
- **Active involvement of end-users** is considered of utmost importance to implement results and achieve impact

Security WP specific issues (2)

All actions are open to ***international co-operation*** to industrialised & International Co-operation Partner Countries (ICPC countries, including South Africa)

- Need to explain why participation of international partners is essential
- Some topics actually recommend international partners



Security WP specific issues (3)

- Testing, validation and demonstration of security solutions, involving end users, **is considered at the core** of the Security theme
- Concrete achievements and milestones are strongly encouraged (expected impact)
- Standards are considered crucial for interoperability: Preparation and promotion of standards within the projects is encouraged
- The broad involvement of **SMEs** in consortia is highly encouraged

Security WP specific issues (4)

- Societal impact of the proposed solutions: respect fundamental rights and compliance with European societal values (including **privacy** issues)
- Gender aspects in planning, decisions and funding must always be taken into account
- Sensitive activities and information: proposals must **not contain any classified information** - ineligible!

(2) The following slides gives an advance notice of Call 6 – still tentative but available

Next Work Programme Call 6: FP7-SEC-2013-1

- “Orientation paper” for the FP7 2013 Security Work Programme:
 - http://ec.europa.eu/research/participants/portal/page/fp7_documentation
- Call publication: **mid-July 2012**
- Budget ~ 298,73 M€
- Deadline for submissions ~ Nov 2012
- Indication of proposal evaluation:
 - Dec 2012 - May 2013
 - negotiations of short listed proposals: mid-2013
 - **projects starting date: end 2013**



Activity 10.1 Security of citizens

Area: 10.1.1 Organised crime	Topic SEC-2013.1.1-1 Serious organised economic crime	CP-IP
	Topic SEC-2013.1.1-2 "Stronger Identity for EU citizens"	CP-FP
Area: 10.1.2 Intel against terrorism	none	none
Area: 10.1.3 Explosives	Topic SEC-2013.1.3-1 Inhibiting the use of explosives precursors	CP-FP
Area: 10.1.4 Ordinary crime and forensics	Topic SEC-2013.1.4-1 Smart and protective clothing for law enforcement and first responders	CP-FP
	Topic SEC-2013.1.4-2 Development of a Common European Framework for the application of new technologies in the collection and use of evidence	CSA
Area: 10.1.5 CBRN protection	Topic SEC-2013.1.5-1 European toolbox, focusing on procedures, practices and guidelines for CBRN forensic aspects	CP-FP
Area: 10.1.6 Information gathering	Topic SEC-2013.1.6-1 Framework and tools for (semi-) automated exploitation of massive amounts of digital data for forensic purposes	CP-IP
	Topic SEC-2013.1.6-2 Novel technologies and management solutions for protection of crowds	CP-IP
	Topic SEC-2013-1.6-3 Surveillance of wide zones: from detection to alert	CP-IP
	Topic SEC-2013-1.6-4 Information Exploitation	CP-IP



Activity: 10.2 Security of infrastructures and utilities

Area: 10.2.1 Design, plan of buildings & urban areas	Topic SEC-2013.2.1-1 Evidence based and integral security concepts for government asset protection	CP-FP
	Topic SEC-2013.2.1-2 Impact of extreme weather on critical infrastructure	CP-FP
Area: 10.2.2 Energy, transport, communication grids	Topic SEC-2013.2.2-1 A research agenda for security issues on land transport	(Coordinating Action)
	Topic SEC-2013.2.2-2 Toolbox for pandemics or highly dangerous pathogens in transport hubs – Capability Project	CP-FP
	Topic SEC-2013.2.2-3 Protection of smart energy grids against cyber attacks	CP-FP
	Topic SEC-2013.2.2-4 Cost effectiveness of security measures applied to renewable/distributed energy production and distribution	CP-FP
	Topic SEC-2013.2.2-5 Security of ground based infrastructure and assets operating space systems	CP-FP
Area: 10.2.3 Surveillance	none	none
Area: 10.2.4 Supply chain	Topic SEC-2013.2.4-1 Phase II demonstration programme on logistics and supply chain security	CP-IP
	Topic SEC-2013.2.4-2 Non-military protection measures for merchant shipping against piracy	CP-FP or CSA
Area: 10.2.5 Cyber crime	Topic SEC-2013.2.5-1 Developing a Cyber crime and cyber terrorism research agenda	CSA
	Topic SEC-2013.2.5-2 Understanding the economic impacts of Cyber crime in non-ICT sectors across jurisdictions	CP-FP
	Topic SEC-2013.2.5-3 Cross border Real-time detection and management of cyber incidents/attacks/espionage on critical infrastructures in sectors other than the ICT sector and government networks (i.e. energy, transport, finance, health, etc)	CP-IP
	Topic SEC-2013.2.5-4 Developing a research agenda for...	CP-FP

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Activity: 10.3 Intelligent surveillance and border security		
Area: borders	none	none
Area: borders	Topic SEC-2013.3.2-1 Pre-Operational Validation (POV) on land borders	CP-CSA
	Topic SEC-2013.3.2-2 Sensor technology for under foliage detection	CP-IP
	Topic SEC-2013.3.2-3 equipment at the land border crossing points	CP-FP
Area: 10.3.3 Air borders	none	none
Area: 10.3.4 Border checks	Topic SEC-2013.3.4-1 Border checkpoints - hidden human detection	CP-FP
	Topic SEC-2013.3.4-2 Extended border security - passport breeder document security	CSA
	Topic SEC-2013.3.4-3 Security checks versus risk at borders	CP-FP
Area: 10.3.5 Intelligent border surveillance	none	none



Activity: 10.4 Restoring security and safety in case of crisis

Area: 10.4.1 Preparedness, prevention, mitigation and planning	Topic SEC-2013.4.1-1 Phase II demonstration programme on aftermath crisis management	CP-IP
	Topic SEC-2013.4.1-2 Better understanding of the cascading effect in crisis situations in order to improve future response and preparedness and contribute to lower damages and other unfortunate consequences	CP-FP
	Topic SEC-2013.4.1-3 Development of simulation models and tools for optimising the pre-deployment and deployment of resources and the supply chain in external emergency situations	CP-FP
	Topic SEC-2013.4.1-4 Development of decision support tools for improving preparedness and response of Health Services involved in emergency situations	CP-FP
	Topic SEC-2013.4.1-5 Preparing societies to cope with large scale and/or cross border crisis and disasters	CSA
	Topic SEC-2013.4.1-6 Preparedness for and management of large scale forest fires	CP-IP
Area: 10.4.2 Response	Topic SEC-2013.4.2-1 Fast rescue of disaster surviving victims: Simulation of and situation awareness during structural collapses including detection of survivors and survival spaces	CP-IP
Area: 10.4.3 Recovery	Topic SEC-2013.4.3-1 Shaping immediate relief action in line with the goals of development co-operation in post crisis / post conflict societies to maintain stability	CP-FP
Area: 10.4.4 CBRN response	Topic SEC-2012.4.4-1 Tools for detection, traceability, triage and individual monitoring of victims after a mass CBRN contamination	CP-IP



Activity: 10.5 Security systems integration, interconnectivity and interoperability

Area: 10.5.1 Information management	Topic SEC-2013.5.1-1 Analysis and identification of security systems and data set used by first responders and police authorities	CP-FP
	Topic SEC-2013.5.1-2 Audio and voice analysis, speaker identification for security applications	CP-IP
Area: 10.5.2 Secure communications	none	none
Area: 10.5.3 Interoperability	Topic SEC-2013.5.3-1 Definition of interoperability specifications for information and meta-data exchange amongst sensors and control systems	CP-FP
	Topic SEC-2013.5.3-2 Testing the interoperability of maritime surveillance systems	CP-CSA
Area: 10.5.4 Standardisation	Topic SEC-2013.5.4-1 Evaluation and certification schemes for security products	CP-FP

Activity: 10.6 Security and society

Area: 10.6.1 Citizens, media and security	Topic SEC-2013.6.1-1 The impact of social media in emergencies	CP-FP
	Topic SEC-2013.6.1-2 Varying forms of terrorism	CP-FP
	Topic SEC-2013.6.1-3 Trafficking in Human Beings: analysis of criminal networks for more effective counter-trafficking	CSA
Area: 10.6.2 Organisational requirements for interoperability of public users	Topic SEC-2013.6.2-1 Facilitators for assistance among EU Member States in emergencies at home and abroad	CP-FP or Coordination and Support Action
Area: 10.6.3 Foresight, scenarios and security as evolving concept	Topic SEC-2013.6.3-1 Horizon scanning and foresight for security research and innovation	CSA
	Topic SEC-2013.6.3-2 The evolving concept of security	CSA
Area: 10.6.4 Security economics	none	none
Area: 10.6.5 Ethics and justice	Topic SEC-2013.6.5-1 Synthesis of results and reviewing of ethics, legal and justice activities in Security research in FP7	CSA



Activity: 10.7 Security Research coordination and structuring

Area: 10.7.1 ERA-net	none	none
Area: 10.7.2 Small and Medium Enterprises	Topic SEC-2013.7.2-1 Open topic for Small and Medium Enterprises: "Solutions for frequent petty crimes that are of high impact to local communities and citizens"	CP-FP
Area: 10.7.3 Studies	Topic SEC-2013.7.3-1 Increasing the engagement of civil society in security research	Coordination and Support Action (Supporting Action)
Area: 10.7.4 Other coordination	Topic SEC-2013.7.4-1 Trans-national cooperation among public security research stakeholders	Coordination & Support Action
Area: 10.7.5 End-users	none	none
Area: 10.7.6 Training	Topic SEC-2013.7.6-1 Open topic for Small and Medium Enterprises: "Use of serious gaming in order to improve intelligence analysis by law enforcement agents"	CP-FP



(3) Recommendations to applicants



- Read and understand the WP:
 - ✓ Not only the relevant topic
 - ✓ Also the activity description
 - ✓ And general recommendations
- Cover the topic in its entirety unless otherwise specified
- Choose the right Funding Scheme for the topic...
...and use the relevant criteria for that FS
- Consult the relevant Guide for Applicants:
CP/CA/SA/NoE/CP-CSA
- Use the evaluation criteria and sub-criteria for building your proposal:
The experts base their assessment on them!

Recommendations (2)

- Respect the page limits
- **Remember:** the involvement of SMEs and relevant End Users is strongly encouraged!
- Do not forget to address ethical and sensitiveness issues!

Further information

- **CORDIS site:** http://cordis.europa.eu/fp7/security/home_en.html
- **Work programme and info:**
 - <http://ec.europa.eu/research/participants/portal/>
- **Helpdesk: Centralised FP7 Enquiries Service:**
 - <http://ec.europa.eu/research/enquiries>
- **National Contact Points:**
 - http://cordis.europa.eu/fp7/ncp_en.html
 - <http://www.seren-project.eu>
- **FP7 SEC projects:**
 - http://cordis.europa.eu/fp7/security/projects_en.html



4) South African NCP Support

In South Africa

- **Awareness**, advice, training, assistance – FP7 rules, objectives
- **Publish Organisational Profile** → ESASTAP and/or CORDIS

In Europe

- **Marketing** RSA capabilities, building networks, seek partners
 - Spain, Netherlands, UK, Germany, France, Finland, Sweden, Belgium, ...
- **Project SEREN2**: Security Research NCP Network phase 2
 - Training, brokerage, networking, partner search, proposal writing support, quality

Important events

- **Security Info Day** ~ Sep 2012, Brussels – Brokerage, partners

How to get involved?

- Work with the NCPs
 - Fill in Organisational Profile Form
 - Indicate SPECIFIC topics of interest
- Respond to calls, timely
 - Start early (long before the call)
 - Clear on what you bring to the party
 - Join and commit to a strong consortium
 - It is about who knows you!
- Have co-funding (25% or 50%)





www.esastap.org.za



South African Organisational Profile Form

EU FP7 Programme
SECURITY Theme

SECTION 1 – ORGANISATION AND CONTACT PERSON

Organisation acronym		Job/Position:	
Organisation Name (full)		Title	
Address		First Name	
Postal code		Family Name	
City		Telephone	
Country		Fax	
www address		E-mail	
		Mobile	

SECTION 2 – TYPE OF ORGANISATION

Note: in EU Terms, an SME is an organisation with < 250 employees and/or annual turnover < €50m and/or annual balance sheet < €43m

If you are an Enterprise:	Private/public/ non-profit/other? SME (Y/N)?	
If you are an Association:	SME/Industrial/Cultural/Civil/Other? Sector of activity:	
If you are a Research Organisation	Private/Public? Research / Higher Education?	
Other type of Organisation	Specify:	
Description of the Organisation (max 1000 characters):		

SECTION 3 – SECTOR OF INTEREST

Description of your Security related sector of interest	
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Looking forward to your participation in FP7 Security

FP7 Security NCPs in
South Africa

NCP: Dr Barend Taute

012 841 4063

Assistant NCP: Simon Nare

Email:

security.ncp@esastap.org.za