Verteidigungsforschung im nationalen und europäischem Kontext - Eine neue Perspektive für Österreich als Forschungs- und Technologiestandort

EDA

Umsetzung in Österreich - organisatorische Aspekte und Perspektiven

(Registrierung, Beteiligungsmöglichkeiten, Finanzierung, POCs, etc.)

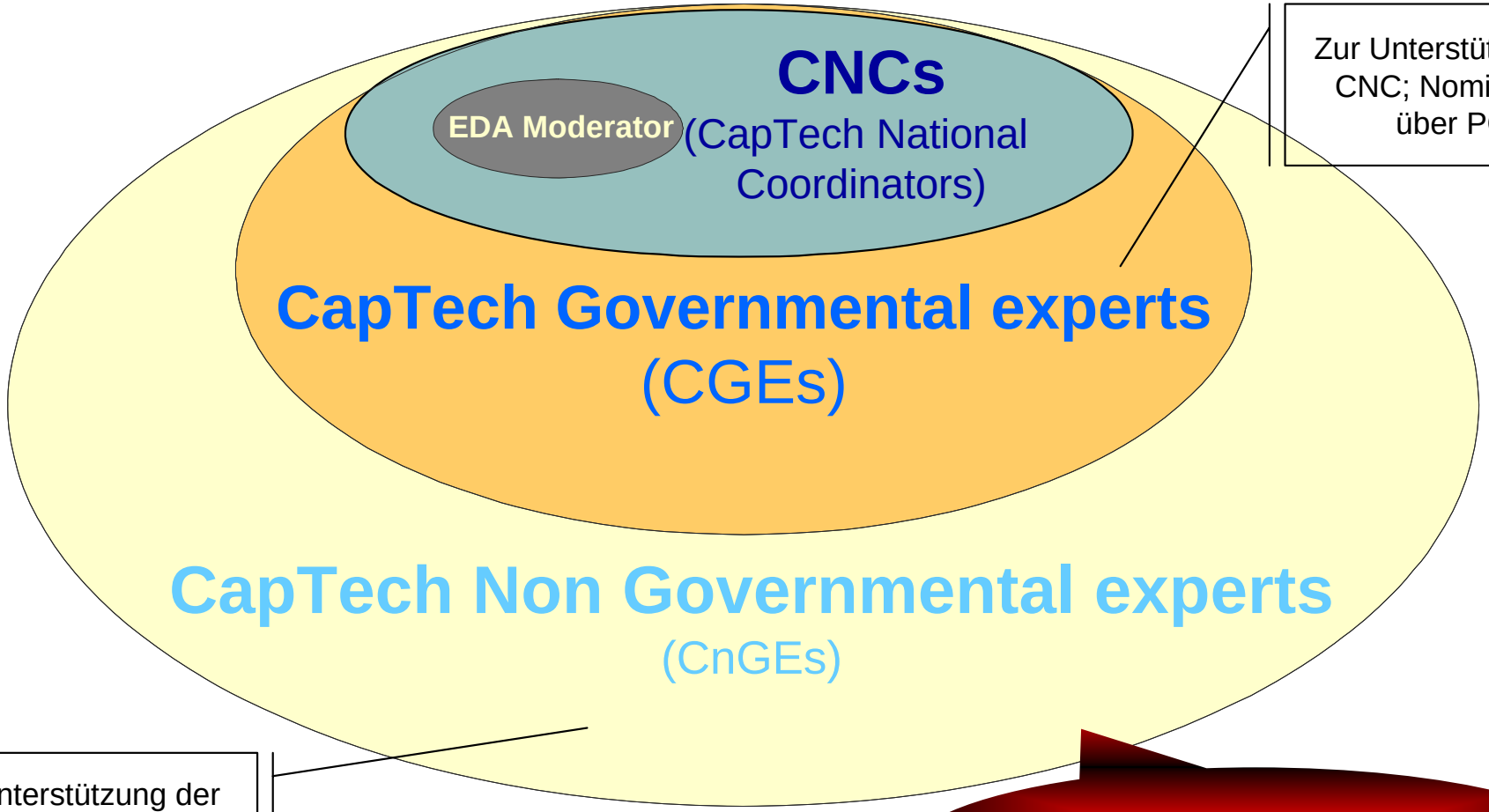
Mag. Hans STARLINGER, ObstdIntD

Stv.Ltr WFE und EDA R&T POC

Umsetzung in AUT

- Zuständigkeit des BMLV gem. BMG für EDA
- Gesamtstaatliche Angelegenheit mit hohem wirtschafts- und technologiepolitischer Relevanz
- BMLV als Koordinator, …. und als „Türöffner“
- Vertretung der AUT Interessen bei der EDA - in div. Gremien, bei Initiativen, ….
- Schaffung geeigneter Rahmenbedingungen in AUT
  - **Umsetzung der Empfehlungen der EDA Studie**
    - Integration der VertFo in das nat. Forschungs- u. Innovationssystem
    - Berücksichtigung in der neuen ö. Forschungsstrategie
    - Entwicklung eines entsprechenden nat. Fo- Förderprogramms
  - **Aufbau eines Expertennetzwerks**
  - **…..**

CAPTECHs: 12 networks of experts



Zur Unterstützung der CNC; Nominierung über POC

Zur Unterstützung der CNC; Selbständige **Registrierung über Homepage EDA**

Aufbau nationales Netzwerk erforderlich!

CAPTECHs: project generation & management

The CNCs have a clear leadership role in the CapTechs!

National Coord. (CNCs)

+

Experts (CGEs, CnGEs)

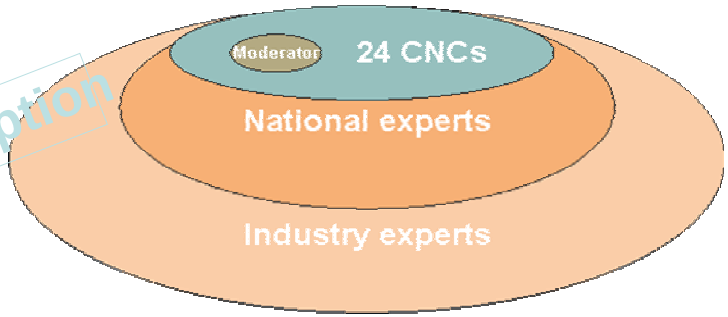
+

Moderator

Support National Coord.

Supports Experts and National Coord.

What are the roles of the CapTech members?



Role of the CapTech moderator

- Stimulates/moderates exchanges and discussions within the CapTech Network
- Facilitates the work of the CapTech: definition of work plan and tasks facilitation (roadmap, portfolio, project generation, …)
- Provides transversal exchanges with other CapTech networks when appropriate.
- Is permanently able to monitor and report on activities/projects conducted through the CapTech.
- Updates the list of experts members of the CapTech Network

Role of the CNCs

- Contributes, as an expert, to CapTech exchanges and work
- Provides national consolidated views on every question faced by the CapTech (identification of projects, response to Capability priorities,…)
- Supports the EDA Moderator in its CapTech Management tasks
- Designates other National government experts who he would like to introduce in the CapTech network

Role of the governmental expert (CGE)

- Contributes, as an expert, to CapTech exchanges and work
- Tables proposals to contribute to the EDA R&T Roadmap
- Proposes R&T studies or projects to answer a top down request, or on a bottom up basis
- Can become the manager of an R&T study or project

Role of the non-governmental expert (CnGE)

- Contributes, as an expert, to CapTech exchanges and work.
- Tables proposals to contribute to the EDA R&T Roadmap.
- Proposes R&T studies or projects to answer a top down request, or on a bottom up basis

CAPTECHs: seitens BMLV nominierte CNC

IAP **Information Acquisition & Processing**	GEM **Guidance, Energy & Materials**	ESM **Environment, Systems and Modelling**
1 : **Components** (…….)	1 : **Materials & Structures** (Bgdr Dr. OPPENHEIM)	1 : **Naval Systems & their Environment** (…….)
2 : **RF Sensors system & Signal Processing** (……..)	2 : **Energetic, Missiles & Munitions** (……..)	2 : **Aerial Systems & their Environment** (…….)
3 : **Optical Sensors Systems & Signal Processing** (……..)	3 : **Ground Systems & their Environment** (…….)	3 : **Systems of systems, Space, Simulation & Experimentation** (Dr. PÖCKL)
4 : **CIS & Network** (HR DI DONHAUSER)	4 : **Guidance & Control** (…….)	4 : **Human factor & CBR Protection** (Mag. OBWALLER)

CAPTECHs: seitens BMLV nominierte CNC u. CGE

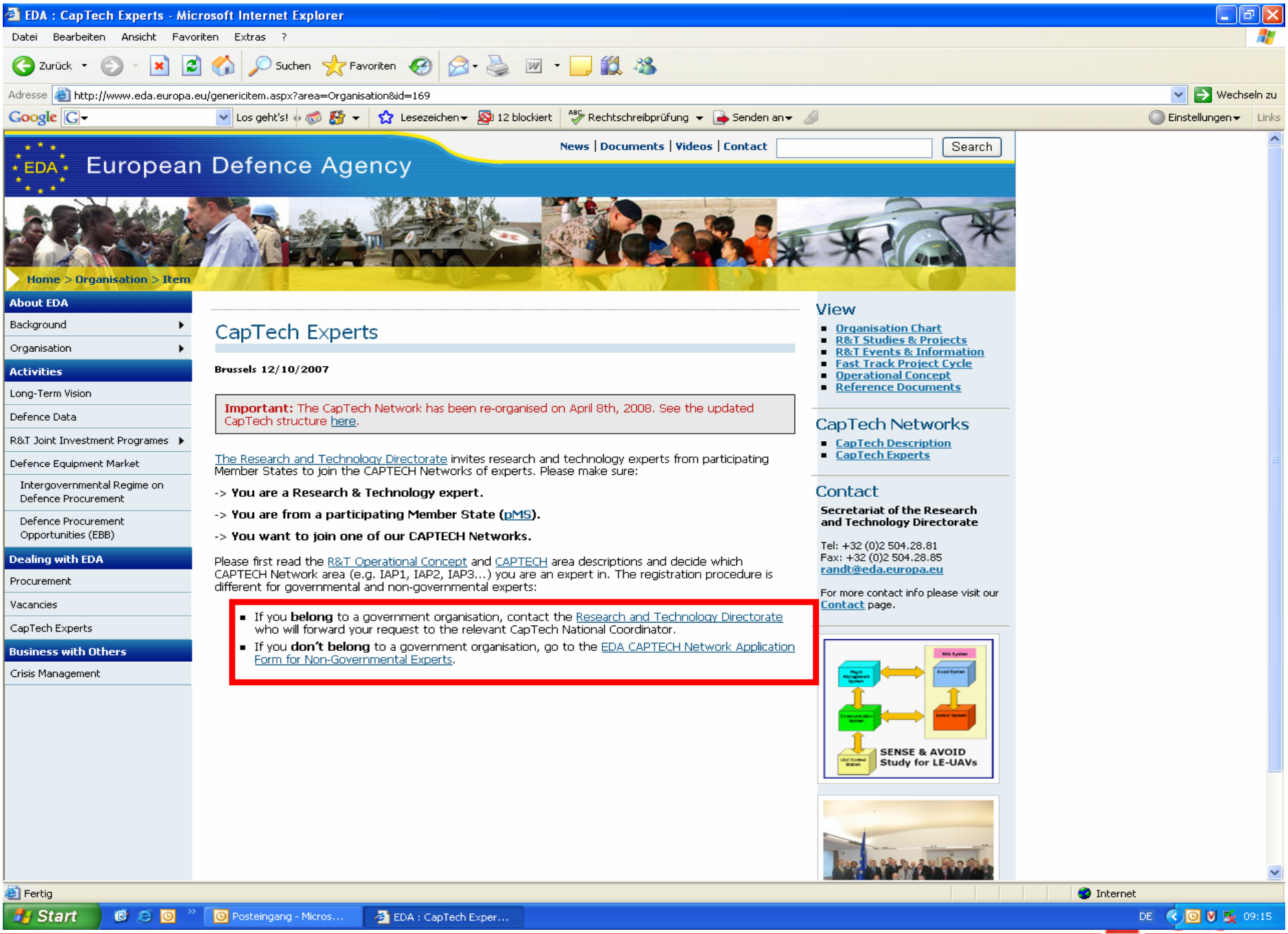
IAP	GEM	ESM
IAP 1 : **Components**	GEM 1 : **Materials & Structures**	ESM 1 : **Naval Systems & their Environment**
CNC: POC R&T **CGE:**	**CNC:** Bgdr Dr. OPPENHEIM, ARWT **CGE:**	**CNC:** POC R&T **CGE:**
IAP 2 : **RF Sensors system & Signal Processing**	GEM 2 : **Energetic, Missiles & Munitions**	ESM 2 : **Aerial Systems & their Environment**
CNC: POC R&T **CGE:**	**CNC:** POC R&T **CGE:** Dr. DORDA, BMVIT	**CNC:** POC R&T **CGE:**

CAPTECHs: seitens BMLV nominierte CNC, CGE
registrierte CnGE

IAP	GEM	ESM
IAP 3 : **Optical Sensors Systems & Signal Processing**	GEM 3 : **Ground Systems & their Environment**	ESM 3 : **Syst of syst, Space, Simulation & Experimentation**
CNC: POC R&T **CGE:**	**CNC:** POC R&T **CGE:**	**CNC:** Dr. PÖCKL, KdoFüU **CGE:**
IAP 4 : **CIS & Network**	GEM 4 : **Guidance & Control**	ESM 4 : **Human factor & CBR Protection**
CNC: HR DI DONHAUSER, KdoFüU **CGE:** Mjr Mag. WAGNER, IKTPl DI Dr. WINDHOLZ, LVAk	**CNC:** POC R&T **CGE:**	**CNC:** Mag. OBWALLER, WFE **CGE:**

Bisher registrierte CnGE: **10 ?**

Registrierung als CGE od. CnGE



JIP „Force Protection“

Total	M€
20 contributing states (incl. NO)	**54.93**

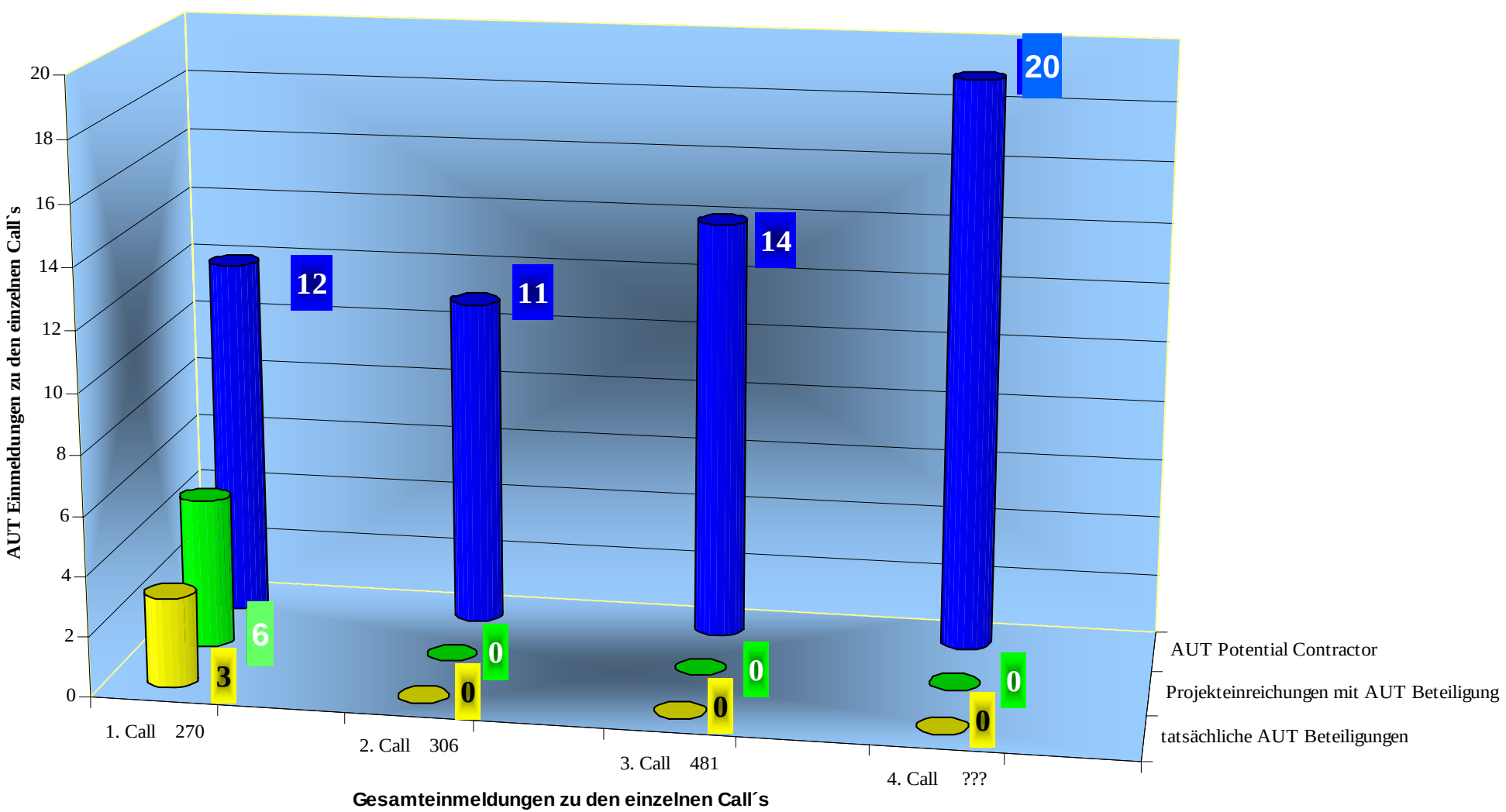
pMS contribution		M€
1	**Austria**	**1.20**

- **Bericht bisherige Beteiligung AUT 1. – 3. Call**
- **Aktuelle Situation 4. Call**
- **Tips für Beteiligung**

Scope - derived from the translation of identified capability needs into 18 specific R&T Goals, covering **five capability areas**:

- Collective (units, platforms, infrastructure) survivability through enhancing detect & identify & response performances;
- Individual protection;
- Data Analysis including data fusion from various sources;
- Secured tactical wireless communication systems in urban environments;
- Mission Planning / Training in an asymmetric environment.

Österreichische Beteiligungen am „Joint Investment Programm – Force Protection“ der EDA



Beitrag AUT € 1,2 Mio Return bis zum 3. Call 62% = € 0,75 Mio Restbetrag für den 4. Call ca. € 0,45 Mio

4. Call JIP „Force Protection“

- **Ende Erhebung „Potential Contractors (PC)“ - 151208**
- **Beginn Call – 161208 (Aussendung Unterlagen an regisrtierte PC mit Liste aller PC)**
- **R&T Goals - Scope:**
  - Improved Identification of threats by better behaviour modelling;
  - The „man in the loop“;
  - Mission planning and training tools;
  - Training methods and techniques to improve mission planning/training tools;
  - Improvement of asymetric threat models;
  - intelligent control of adversary mobile phone communications
- **Frist für Einreichung von Proposals bis 310309**
- **Beteiligung im Rahmen von internat. Konsortien** … mit Partner mit Defence Bezug
- **Unterstützung durch BMLV bei Projekteinreichung**
  - bei der Definition der Punkte „Capability Improvement“, „State of the Art“, „Objectives of WP“
  - Verwendung mil. Terminologie

Call 1/2/3 Overall Return Situation – *Funding of the recommended assumed

Erstellt von:
Attila SIMON u. Ulrich KAROCK
25. Nov. 2008

cM	Contri-bution.	Re-turn	Sum	Call 1+2	Call3 *		cM	Contri-bution.	Re-turn	Sum	Call 1+2	Call3 *
AT	1,20	62%	0,75	0,75	-		HU	0,60	136%	0,81	-	0,81
BE	1,52	77%	1,17	0,37	0,79		IE	0,70	107%	0,75	-	0,75
CY	0,09	0%	-	-	-		IT	2,64	181%	4,79	2,70	2,08
CZ	0,60	112%	0,67	-	0,67		NL	4,00	70%	2,82	0,74	2,08
DE	10,00	84%	8,41	6,22	2,19		NO	1,50	22%	0,34	0,34	-
EE	0,53	0%	-	-	-		PL	10,00	38%	3,84	2,11	1,73
EL	1,00	94%	0,94	-	0,94		PT	0,70	124%	0,87	0,87	-
ES	2,64	217%	5,73	2,25	2,58		SE	1,49	121%	1,80	0,94	0,89
FI	2,00	59%	1,17	0,75	0,42		SI	0,72	62%	0,45	0,45	-
FR	12,00	70%	8,46	7,37	1,09		SK	1,00	0%	-		-

Sonstige relevante Aspekte

EDRC – Initiative der EDA

- Ziel:
  - to have a **global picture of technology competences of EDRC in Europe** ….. from **defence research centres to SMEs or industrial research providers**
  - to support part. Members States and EDA in the CapTech fora, giving them an advisory role
  - to **facilitate future collaborative actions** and emergence of **technical clusters**
  - to help multidisciplinary approach to address more complex systems
- 1. Phase: Einrichtung einer Datenbank bei der EDA
  - as a framework for pMS to **identify the different Defence Research Centres available in Europe**, their competences, ongoing activities and topics open for collaboration

Sonstige relevante Aspekte

NATO/RTO

- Beteiligungsmöglichkeiten für AUT Forschungseinrichtungen an div. für PfP Nationen offene Task Groups, Symposien, etc.
- PfP Workplan Activities 2009 – 2010
- Nähere Infos über
  - WFE und
  - Homepage NATO/RTO

Kontakt, Information

AUT EDA POC R&T

Mag. Hans STARLINGER, ObstdIntD

Bundesministerium für Landesverteidigung

Abteilung Wissenschaft, Forschung und Entwicklung WFE

Roßauer Lände 1

1090 WIEN

Tel.: +43 (0)1/50201-22275

Fax: +43 (0)1/50201-17040

email: hans.starlingerf@bmlv.gv.at

Homepage EDA: www.eda.europa.eu

Homepage BMLV: www.bundesheer.at

Informationsmaterial BMLV

European Defence Agency

Building Capabilities for a Secure Europe

?

Struktur CapTech (12 Capability Technology Areas)

Capability Areas	*Knowledge (inform, command)*	*Engagement (engage, protect)*	*Manoeuvre (deploy, sustain)*
CapTech Domains	**IAP Information Acquisition and Processing**	**GEM Guidance, Energy and Materials**	**ESM Environment, Systems and Modelling**
Capability Technologies = Cap Techs	IAP 01 – **Components** IAP 02 – **RF Sensors system & Signal Processing** IAP 03 – **Optical Sensors Systems & Signal Processing** IAP 04 - **CIS & Networks**	GEM 01 – **Materials & Structures** GEM 02 – **Energetic, Missiles & Munitions** GEM 03 – **Ground Systems & their Environment** GEM 04 - **Guidance & Control**	ESM 01 – **Naval Systems & their Environment** ESM 02 – **Aerial Systems & their Environment** ESM 03 – **Systems of systems, Space, Simulation & Experimentation** ESM 04 - **Human factor & CBR Protection**

EDRT Strategy – 22 Key R&T Priorities

RF generic technologies (components, processing, systems, integration) and multifunction RF technologies.	Energetics & Energetic Materials
EO Systems & Integration	Soldiers Systems (incl. integration into Systems of Systems and NEC)
Electronics Hardware	Counter-mine (land), gap-crossing and counter-mobility systems
Structural Modelling Design & Through Life Support	Power source and supply technologies
Networked sensor control, management and cueing	Ground Platform technologies (structure, mobility…) and mounted platform systems
Command and control technologies (campaign /ops/ mission planning and mgt, battlespace mgt, shared situational understanding, data fusion / mining / reduction, image exploitation, innovative Sensors for Urban Warfare, including acoustic and seismic sensors)	Uninhabited land systems
HF, VHF & UHF Communication Technologies	Aerial platform technologies (airframes, propulsion, aerodynamics, structures, control… - incl. Helicopters, UAVs (incl. High altitude platforms)
Waveform design, spectrum and bandwidth management	Environment definition (Oceanographic & hydrographic techniques and analysis)
Network Management in NEC operations (Fault, Configuration, Administration, Performance & Security management)	Uninhabited naval systems, especially underwater systems
Technologies for secure and robust information management, information exchange and communications	Physical protection
Human integration and interoperability	Concepts, design, integration, simulation & modelling