

Estonian activities towards sustainable GMES program

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**GMES OPERATIONAL CAPACITY WORKSHOP
25 - 26 MARCH, SHERATON HOTEL, SOFIA, BULGARIA**

Estonia



*Territory 45227 km² , water 4.45%;
Population of 1.34 million*

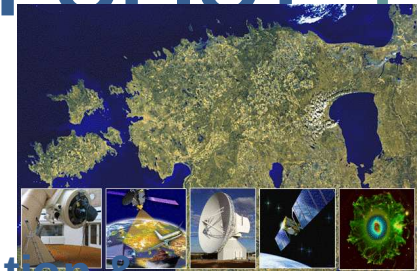
*Estonia is a democratic parliamentary republic.
The capital and largest city is Tallinn.*

*Member of the
League of Nations from 22 September 1921,
of the United Nations since 17 September 1991,
of the European Union since 1 May 2004 and
of NATO since 29 March 2004.*



Why Space for Estonia?

“TOWARDS ESTONIAN SPACE POLICY AND STRATEGY” 2007/2008



Earth Observation, Satellite Communication, Navigation & Positioning, Space Science & Exploration

User-driven approach to develop space applications based on platforms like GMES and Galileo.

Especially important:

- (1) long shoreline along Baltic Sea – the one of the most polluted and ecologically sensitive seas of the Europe**
- (2) location on the border of Schengen area and European Union.**

Estonia and ESA



European Cooperating state agreement between the Republic of Estonia and the European Space Agency was signed on November 10 , 2009.

For PECS 36 proposals

Enterprise Estonia is coordinating national space activities and is national contact point for ESA.

Creation a strategy (2010-2020) and Action plan

Policy - Decision makers

Legal and Regulatory Framework - Establish stable and predictable environment for business

Stimulate innovation and Encourage entrepreneurship

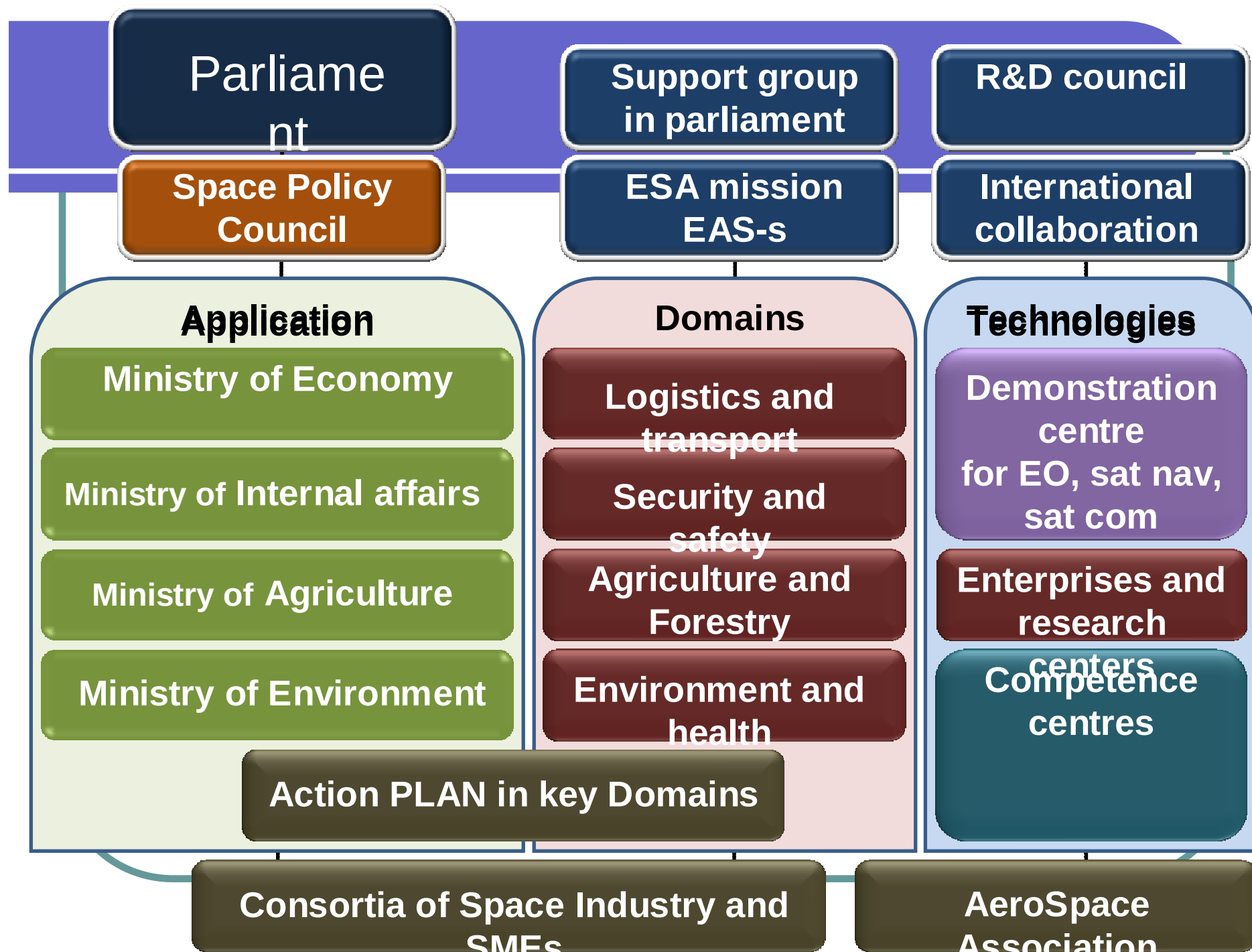
Relationship between User ministries and defence min.

Research and Development - public and private institutions, industry

Operational Products and Services – industry and SMEs

USERS

Estonian Space sector: partners and government



Structure of the components and objectives

**Development of
public sector
through
services**

**New markets for
enterprises**

**Increased
Research and
Educational
competence
internationally**

**Application
domains :**

Earth Observations

Transport &
logistika;

Satellite navigation & communication

Metsandus;

Space research

Põllumajandus;

**Each persons
uses local
space
application
every day**

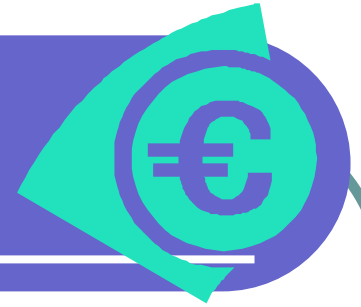
**Development
of services
globally**

**Modern
infrastructure
and
international
networking**

Turvalisus &
julgeolek;

Tervis &
Keskkond.

Finance sources



Ministries – Economy, Research, Environment ,
Internal affairs

National Research projects (target financing and
grants)

Applied projects directly from public authorities (
Ministry of Environment, Defence, Internal
affairs *etc*)

Research and development in cooperation with
enterprises – *Enterprise Estonia*

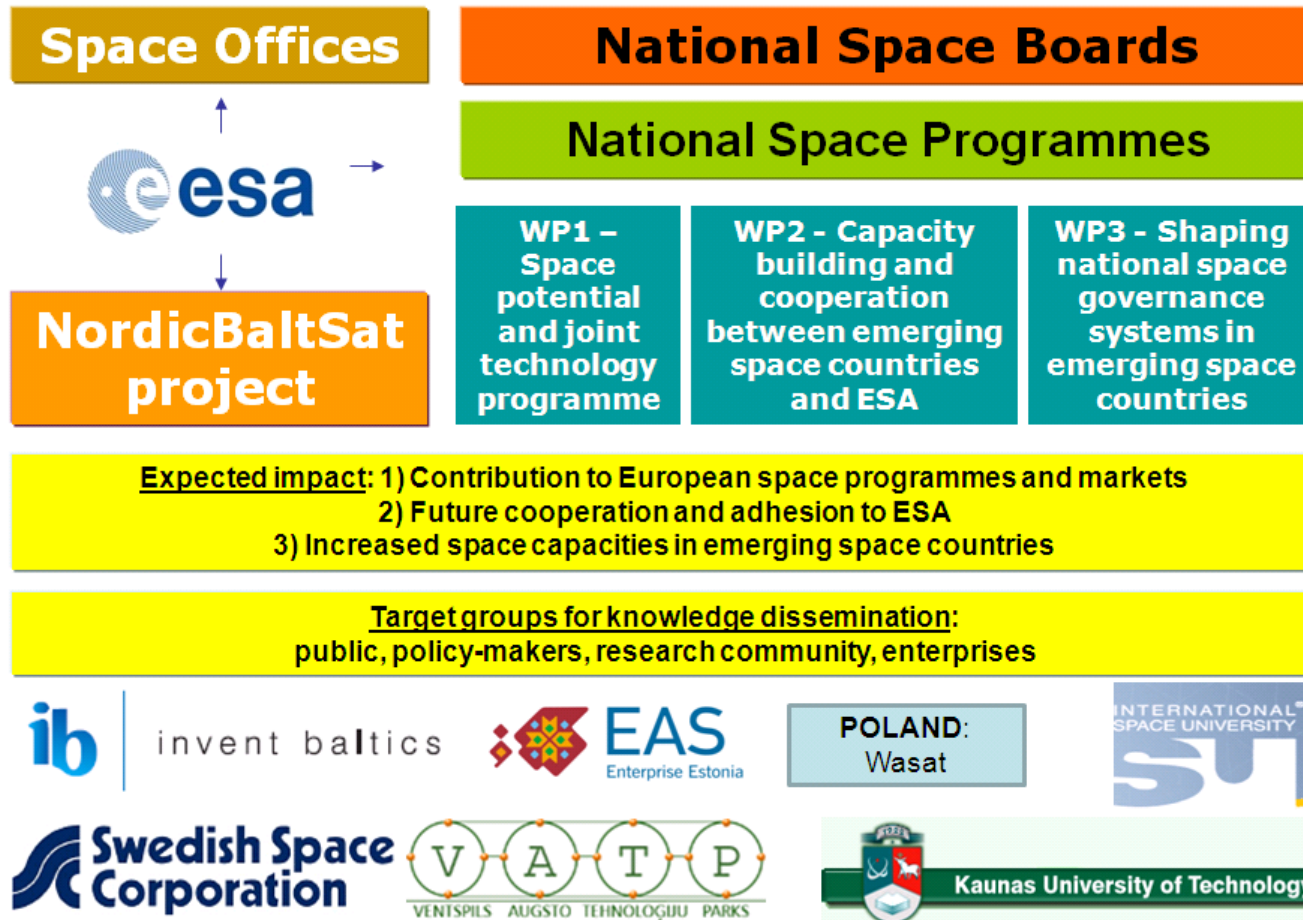
International collaboration contracts and projects

Ongoing International Cooperation Projects

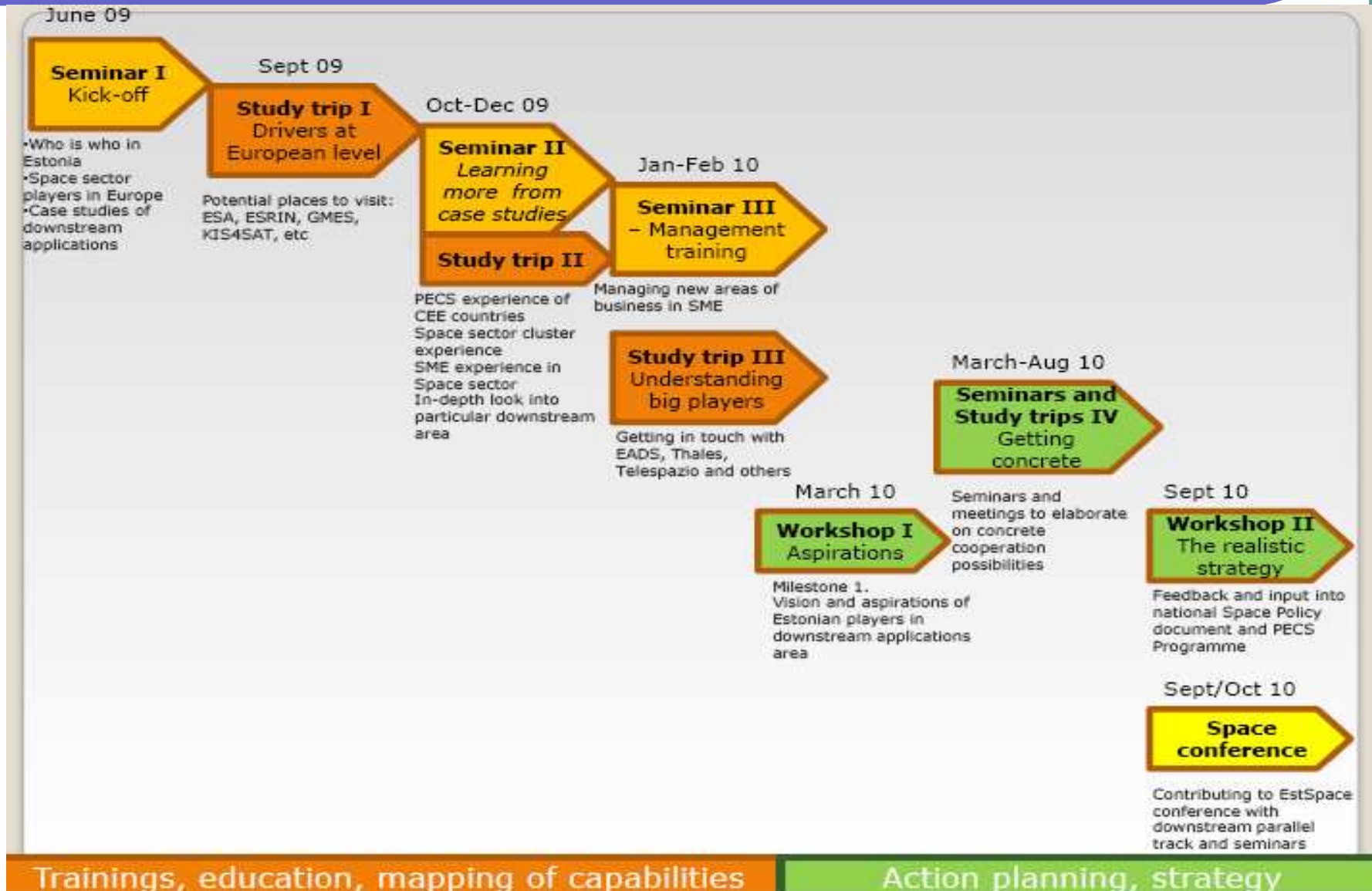
- **Research**
- **Education**
- **Business & Entrepreneurship**
- **Space Policy**
- **Public Awareness**

NordBaltSat

FP7-Space-2008/11, SPA.2009.2.4.01 Support to new EU-Member States/Associated States



Increase awareness about space services among entrepreneurs and public officers:



NORWAY GOVERNMENT BILATERAL FINANCIAL
MECHANISM PROGRAMME
„CROSS-BORDER COOPERATION”



Ventspils and Tartu cooperation in space
technologies related research and training.



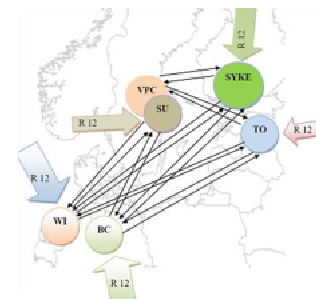
Expose the Capacity of Estonian Space Research and Technology through High Quality Partnership in Europe

FP 7 Grant agreement No 204727 , CSA-SA_FP7-REGPOT-2007-1 (2008-2011)
Capacities Programme: Research potential of Convergence Regions

Waters

“Strategic partnership for improved basin-scale Water quality parameter retrieval from optical Signatures”

FP7 Marie Curie Industry-Academia Partnerships and Pathways (IAPP)
(2010-2014)



SAFEWIN

MyOcean

Marine Systems Institute

FP7 SAFEWIN “**Safe Navigation in Dynamic Ice Conditions**” contractor
Helsinki University of Technology, Prof.
Pentti Kujala

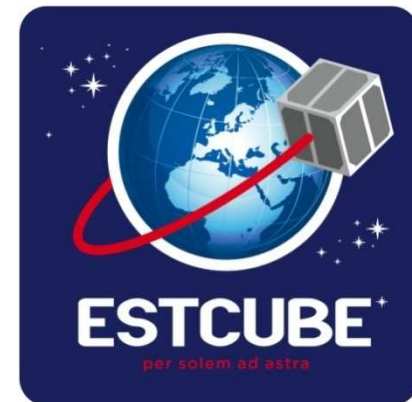
FP7 MyOcean
GMES Core (61 partners)



ESTCube-1

Education and awareness

The Estonian Student Satellite project started 2008 at Tartu University with the objectives to launch the first Estonian satellite in 2012.



SPACE DOWNSTREAM SERVICES 2010
INTERNATIONAL CONFERENCE

BOOSTING THE COMPETITIVENESS
OF BUSINESS & SCIENCE:
SATELLITE SERVICES IN MODERN SOCIETY

6-7 May 2010 Tallinn, Estonia

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