

The AEROSPACE Programme

Delta Project in the Context of Space Applications Strategy for Human Security

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"Telemedicine Applications in Remote Areas" Workshop – Constanta 2005

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Space Application for Health Security

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Space Applications for Health - Premises

- Institutional Basis:
 - Government Strategy;
 - National Programs Funding;
 - ROSA - ESA agreements;
 - ROSA - MITAC agreement;
 - Romanian Government - NASA agreement.
- Premises:
 - Development of IT&C infrastructure and services;
 - Awareness of the public and medical community;
 - Political will and support.

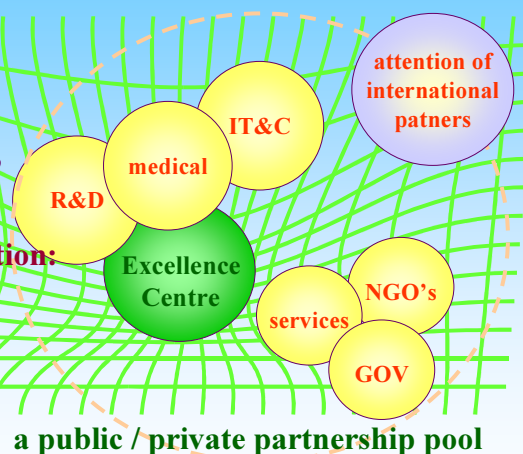
Attraction Effect Expected

"Gravity" Pattern:

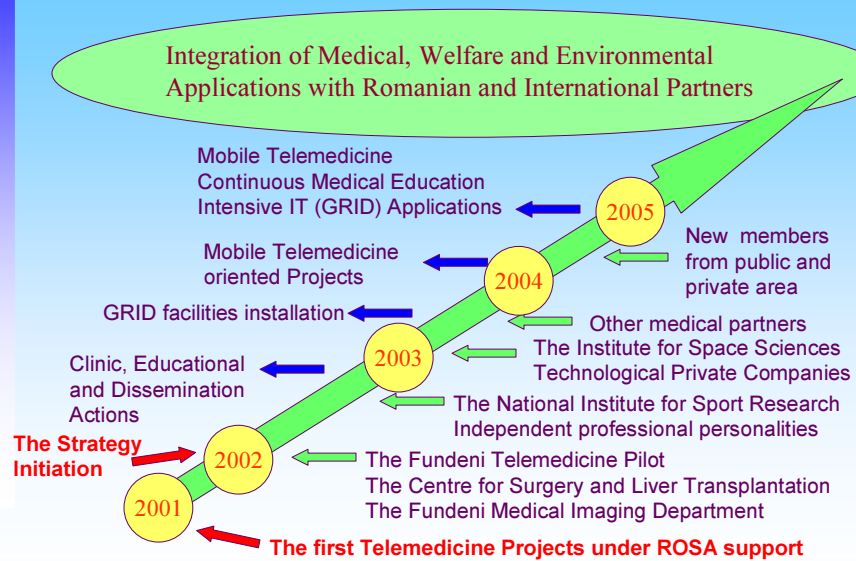
- coherent strategy,
- common projects,
- technological needs,
- societal needs

Critical mass irradiation:

- competence
- solutions
- education
- opportunities



The Strategy Roadmap



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Mobile Telemedicine in Romania

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The Telemedicine Need in Romania

- Environment:
 - Remote undeveloped, inaccessible zones;
 - Disaster (flood, seismic activity) hazard;
 - Medical assistance to be improved.
- Needs:
 - Resource sharing and management;
 - Mobile, remote medical assistance;
 - Integration of clinical databases;
 - Training & education of medical personnel;
 - International integration and compatibility.

Mobile Telemedicine Related Projects

Public/Private Partnerships and Consortia developing Telemedicine and Life Protection projects

- The AEROSPACE Programme:
 - DELTA - mobile telemedicine services in remote, infrastructureless areas;
 - SMOPERR - mobile monitoring of humans in conditions of high vital risk.
- The National Trauma Network:
 - Mobile, Critical & Trauma Medicine;
 - Rescue and Pre-clinic Services.

Mobile Telemedicine Resources

- Practice in “classical telemedicine” such as tele-diagnostics, tele-radiology, tele-consulting and continuous distance medical education;
- Rescue, Critical & Trauma Services;
- Integrated Medical Procedures & Protocols;
- IT&C infrastructure and know-how;
- Wireless Data Communication resources including Mobile Telephony and Satellite Data Communications;
- WEB based technology and applications.

Mobile Telemedicine Specific Goals

- Medical assistance in remote areas and/or in critical situations (disasters, terrorism, etc.)
- Fast response for Critical and Trauma Medicine;
- Integration of in-situ medical assistance with clinical response at the hospitals;
- Interoperability of medical procedures at all levels of Critical and Trauma Medicine;
- On-line connection with major Medical Units as source for tele-consulting and tele-mentoring;

Mobile Telemedicine Integrated Goals

- Integration in the National Telemedicine System;
- Integration in the National Health-Care System;
- Telemedicine Productivity;
- **Regional & International Integration;**
- **Strategic connections with other Applications for Human Life Protection: GMES, Border Security, Anti-Terrorism, Disaster Management, etc.**

The Delta Project

DELTA Project Ground

- Funding: **The AEROSPATIAL Programme**
- Under the coordination of the **Romanian Space Agency (ROSA)**
- National consortium partnership:
 - Constanța County Emergency Hospital (**project coordinator**)
 - Fundeni Clinical Institute - Bucharest
 - Tulcea County Hospital
- With Partners:
 - Virginia Commonwealth University, Communication Companies, IT&C Applications Companies and independent professional personalities

DELTA – Geography



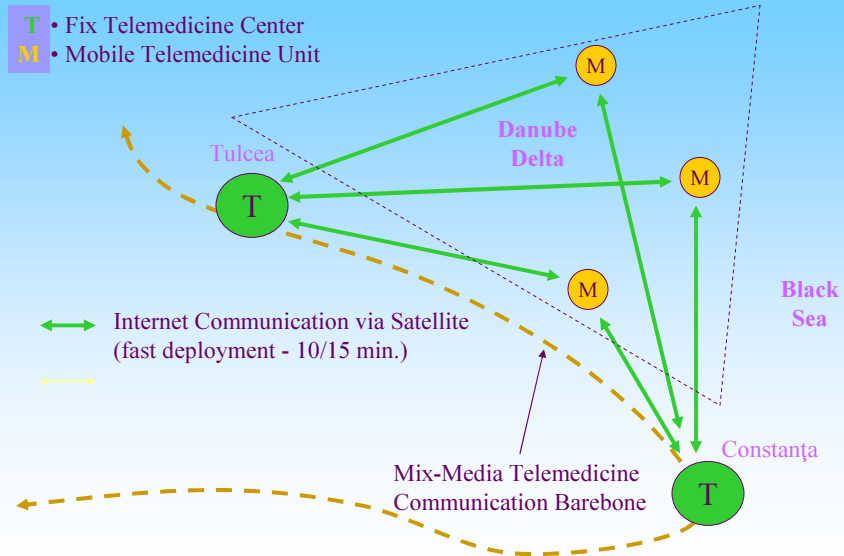
DELTA – Geography



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DELTA – Data Communication Support

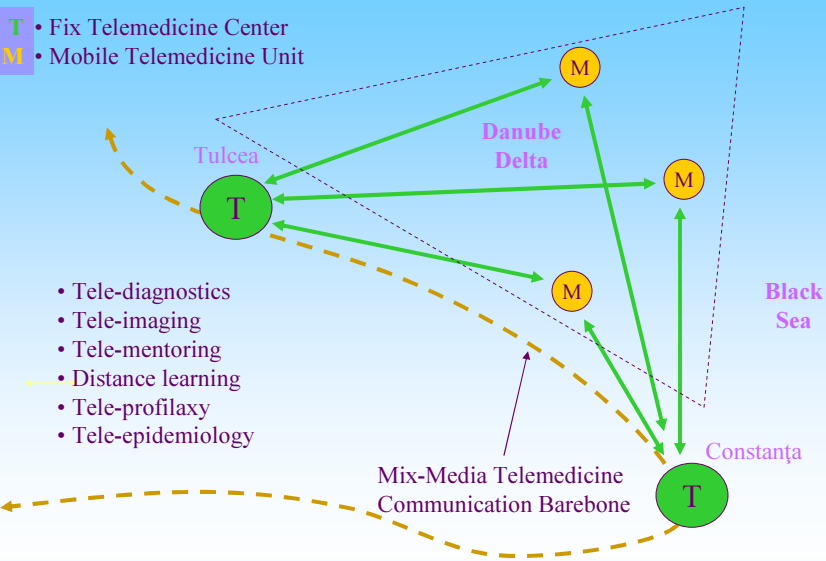


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DELTA – Telemedicine Functions

- T • Fix Telemedicine Center
- M • Mobile Telemedicine Unit

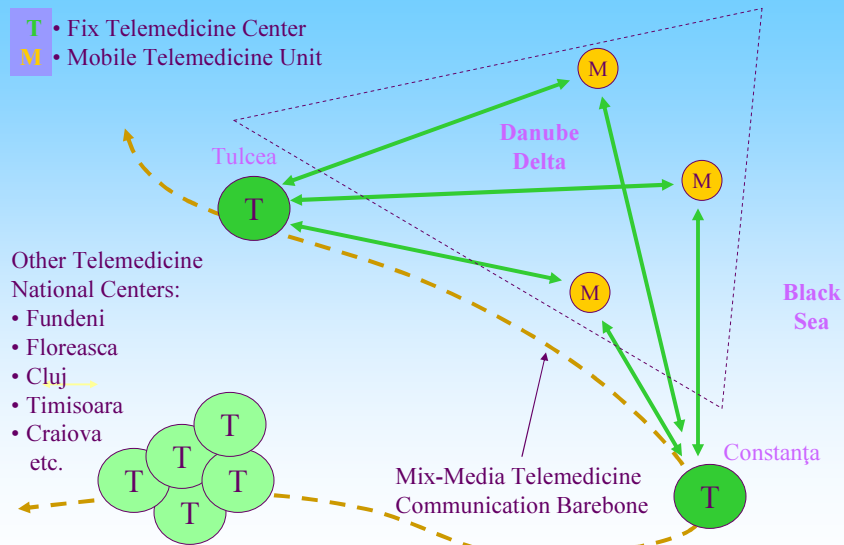


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DELTA – National System Integration

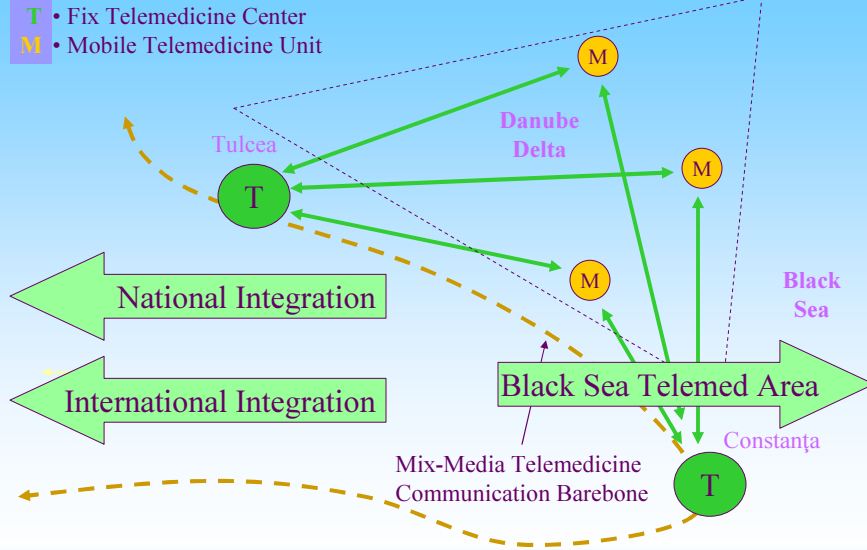
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DELTA – International Integration



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DELTA – Project Schedule



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**Thanks for your kind
attention !**

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