

*C'è più Spazio in Toscana*



## The Aerospace Network of Tuscany

*M. Luise, University of Pisa  
Steering Committee of Toscanaspazio*



UNIVERSITÀ DI PISA



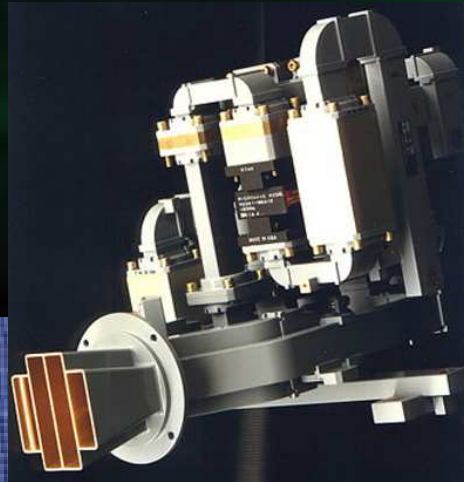
TOSCANASPAZIO  
Villa Letizia, Via dei Pensieri 60, 57128 Livorno, ITALY  
[www.toscanaspazio.it](http://www.toscanaspazio.it)

*There's more Space... in Tuscany*

# Under the Tuscan Sun...



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...re Space... in Tuscany

# The Rationale



Many companies and research Institutes in Tuscany have been active in the field of aerospace technology for years with National and International customers (ASI, ENAV, ESA, EU FP, Eutelsat, Inmarsat, MIUR, MISE, ...).

At the National level, Tuscany is NOT considered amidst the main technological districts or areas of interest in the field of aerospace industry and research (contrarily to Lazio, Piemonte, Campania, Puglia, Basilicata, Lombardia,...).

**Tab.1 – Le competenze spaziali sul territorio italiano (censimento del Distretto Virtuale sulla base dei riconoscimenti ufficiali di Ministeri, ASI, Regioni)**

**Piemonte**

Distretto Torino wireless (Accordo MUR – Regione)  
Polo aerospazio (Accordo 2008 ASI – Regione) : Galileo timing facility, spacial exploration technologies)  
Estensione Polo su Metadistretto (con Camoania e Puglia)  
Partecipazione ASI in ALTEC Spa con Thales e enti locali (Servizi avanzati, monitoraggio ambientale, logistica di volo spaziale per ISS, NASA – Shuttle, ecc.)

**Liguria**

Sistemi robotici intelligenti (Accordo MUR-Reg.)

**Umbria**

Meccanica avanzata (supportato da Regione) per riconversione settore regionale su hi-tech spaziale

**Lazio**

Sede ASI  
DTA (Distretto Tecnologico Aerospaziale) (Accordo MUR-Reg.)  
 Hub nazionale sicurezza (servizi PRS integrati Galileo, Cosmo SkyMed)  
 bandi aerospazio, sviluppo EGNOS per volo civile, propulsione  
Partecipazione ASI in ELV Spa con Gruppo Avio  
 vedi polo propulsione Colleferro e programma Vega - Lyra

**Campania**

Partecipazione ASI a CIRA con CNR - trasporto e sviluppi spaziali  
Distretto materiali speciali (Accordo MUR-Reg./ CIRA)  
Hub tecnologico aerospazio (Accordo 2007 Regione – CIRA)  
 facilitazioni a PMI tramite CibaPark, propulsione - UAV, componente utente Galileo (terminali mobili personali)  
Accordo sul Metadistretto (con Piemonte e Puglia)

**Sicilia**

Base ASI Trapani esplorazione e sperimentazione near space / Distretto microelettronica (Accordo MUR-Reg.) telemedicina

**Lombardia – F.V.G.**

Bioscienze (Accordo MUR-Reg.) - vedi coinvolgimenti in sviluppi dati bio e da missioni spaziali “near space”

**Veneto**

Distretto Padova nanotecnologie (Accordo MUR-Reg.)

**Emilia Romagna**

Distretto hi-mech (Accordo MUR-Reg.)

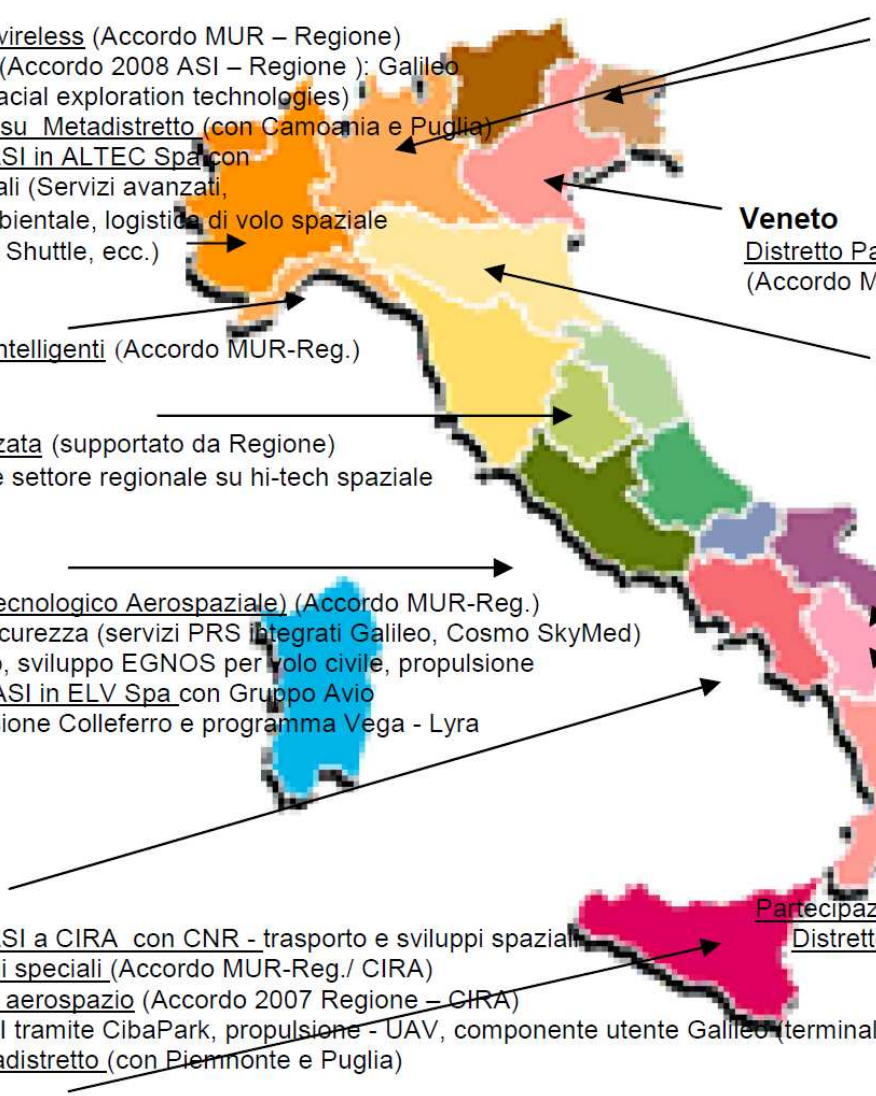
**Puglia**

Distretti HiTech, infoscienze, mechatronics nanotechnologies (Acc.MUR Regione)  
Distretto aerospazio (ric. Regione)  
 telerilevamento, trattamento e fornitura dati OT, alta formazione internazionale in collegamento con base ASI Matera  
Accordo Metadistretto (Piemonte e Campania)

**Basilicata**

Base ASI Matera OT  
Partecipazione ASI a e-Geos Spa con Telespazio – vedi gestione dati Cosmo SkyMed

Partecipazione ASI a Impresambiente Scarl con CNR  
Distretto protezione ambientale (Regione)



## The Real Status



Toscanaspazio launched a poll in December 2010 to evaluate the “size” of the aerospace district in Tuscany. The total turnover of the companies in the field turned out to be close to **310 ME with > 2.200 employees.**

**Strictly restricting to spatial activities, the turnover is 65ME with 500 employees, mainly in the fields of *Telecommunications and navigation (11 companies), Earth/Space Observation (9), Radio frequency and Microwave technologies (9).***

The figures above are still partial – they do not include the figures about Selex-Galileo and the Universities (lack of info)

# Tuscany needs more... SPACE to work and cooperate at best



*To recognize **excellence** and disseminate the competence and results outside our Region*

*To **accommodate** all players, be them large, small, or micro enterprises and/or Research Institutions and Universities across the Region*

*To attain a full **regional relevance** and better compete at the National ad European level*



**April 2010**



*A group of scientists, executives and engineers all involved in the field of aerospace gathers around a table and starts to “**build consciousness**”, to have a look at what happens in other Italian regions, and to start up some actions...*



**Mail is sent.. (July 30, 2010)**



*“... a pervasive network of companies and research Institutions scattered across the whole region of Tuscany will facilitate the creation and strengthening of competence through the development of technologies and services. It will also help preventing the brain drain and the possible slow decay of our technological, scientific, and entrepreneurship assets”*

# The Goals



- **Creating a distributed network** of companies and Institutions across the whole Region to steer, promote, and exploit all cultural, learning, and research activities in the field of Aerospace
- **Spreading consciousness and knowledge** of the diverse skills and expertise borne by the diverse players in the field, so as not to waste the current human capital and to prevent the brain drain outside Tuscany
- **Promote the growth** and harmonic development of the **excellent areas** in the field
- **Create synergies and exploit complementarities** to find new occasions of business

## In practice:



*Create occasions for Tuscan partners to meet and recognize each other's **competence***

*Gather groups of excellent partners around specific **industrial or research projects** financed by national and international companies and Institutions*

*Give full (international) **visibility** to the competences and activities as above (meetings, conferences, trade fairs etc.)*



# The start-up



An initiative was taken up by a **Steering Committee** under the auspices of the Regional government (Regione Toscana)

The first **get-together** in Livorno (Leghorn) in September 2011 was attended by **50 people** coming from all over the region and representing all of the players

**Toscanaspazio** has now a name, a logo, an Internet domain and website, a central venue: ad **identity**

The interested **players** are **almost 40** including the three regional Universities (Siena, Florence, Pisa), CNR (the Italian National Council for Research), CNIT, and all of the relevant companies.

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## The Logo



***Cypresses on a hill:*** how to better picture the heritage of Tuscany?

***The Light dots:*** are they the stars that used to guide the traveler since the times of our ancestors, or rather, are they the artificial satellites of more modern and technological constellations that guide the contemporary traveler?

# The Steering Committee



**Bruno CASALI** (IDS, *R&D Director*)

**Enrico DEL RE** (UNIFI, *Professo, President CNIT*)

**Erina FERRO** (CNR-ISTI, *WINLAB Director*)

**Giuseppe IANNACCONE** (UNIFI-DII, *Professor, SEED Dir.*)

**Simone LAZZARINI** (AVMAP, *CEO*)

**Marco LUISE** (UNIFI-DII, *Professor, President of Wiser*)

**Marco MAGNAROSA** (Consorzio CUBIT, *CEO*)

**Francesco PETRONI** (SITAEL Space, *Managing Director*)

**Sabino TITOMANLIO** (M.B.I., *Innovation Director*)

# Our Network



<b>AEROSPAZIO TECNOLOGIE</b>	SIENA	<i>PMI</i>
<b>ALTA</b>	PISA	<i>PMI</i>
<b>ALTRAN</b>	PISA	<i>INDUSTRIA</i>
<b>AVMAP</b>	MASSA CARRARA	<i>PMI</i>
<b>CNIT</b>	FIRENZE	<i>UNIVERSITA', RICERCA</i>
<b>CNR-IFAC</b>	FIRENZE	<i>UNIVERSITA', RICERCA</i>
<b>CNR IFC</b>	PISA	<i>UNIVERSITA', RICERCA</i>
<b>CNR ISTI</b>	PISA	<i>UNIVERSITA', RICERCA</i>
<b>CPR</b>	PISA	<i>UNIVERSITA', RICERCA</i>
<b>CUBIT</b>	PISA	<i>PMI</i>
<b>DAXO</b>	LIVORNO	<i>PMI</i>
<b>FLY-BY</b>	LIVORNO	<i>PMI</i>
<b>GALVANICA PASQUALI</b>	FIRENZE	<i>PMI</i>
<b>IDS</b>	PISA	<i>INDUSTRIA</i>
<b>INTECS</b>	PISA	<i>INDUSTRIA</i>
<b>ITLINK</b>	LIVORNO	<i>PMI</i>
<b>JEPPESEN</b>	MASSA CARRARA	<i>INDUSTRIA</i>
<b>KAYSER</b>	LIVORNO	<i>PMI</i>

<b>MBI</b>	PISA	<i>PMI</i>
<b>NETFARM</b>	PISA	<i>PMI</i>
<b>PASQUALI</b>	FIRENZE	<i>PMI</i>
<b>RIDE THE WAVE</b>	PISA	<i>PMI</i>
<b>SEED</b>	LIVORNO	<i>UNIVERSITA', RICERCA</i>
<b>SELEX-GALILEO</b>	FIRENZE	<i>INDUSTRIA</i>
<b>SISTEMI DINAMICI</b>	PISA	<i>INDUSTRIA</i>
<b>SITAEI</b>	VIAREGGIO	<i>PMI</i>
<b>TESENE</b>	PISA	<i>PMI</i>
<b>TAS-I</b>	FIRENZE	<i>INDUSTRIA</i>
<b>UNIFI</b>	FIRENZE	<i>UNIVERSITA', RICERCA</i>
<b>UNIFI-DII</b>	PISA	<i>UNIVERSITA', RICERCA</i>
<b>UNISI-DII</b>	SIENA	<i>UNIVERSITA', RICERCA</i>
<b>WAVECOMM</b>	SIENA	<i>PMI</i>
<b>WISER</b>	LIVORNO	<i>PMI</i>
<b>YOGITECH</b>	PISA	<i>PMI</i>
<b>REGIONE TOSCANA</b>	FIRENZE	<i>PUBBLICA AMMINISTRAZIONE</i>
<b>MARITELEREADAR</b>	LIVORNO	<i>DIFESA</i>
<b>SICI Toscana</b>	FIRENZE	<i>PUBBLICA AMMINISTRAZIONE</i>

## First year of activity



- Get together, presentation to ASI, meeting and presentation at the Regione Toscana (RT), participation to the Technology Poles of the RT
- Almost 100 e-mail messages to the mailing list
- **37** actors participating to the Network
- **10 Steering Committee Meeting**



# Coming Next



- 2nd Get Togethers
- Registration of the association under the Italian law
- Scouting of “new business” occasions
- Participation to the forthcoming FP7 Calls “Space”
- INTERNATIONAL LIAISONS**
- ...

# Contacts



*Portal*

[www.toscanaspazio.it](http://www.toscanaspazio.it)

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*More info*

[info@toscanaspazio.it](mailto:info@toscanaspazio.it)

050 3870 841

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The Aerospace Network  
of Tuscany

**THANKS FOR YOUR  
ATTENTION !**

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[info@toscanaspazio.it](mailto:info@toscanaspazio.it)

