

Technology Transfer and Role of SMEs in the IRGAL Project

Alfredo Biocca



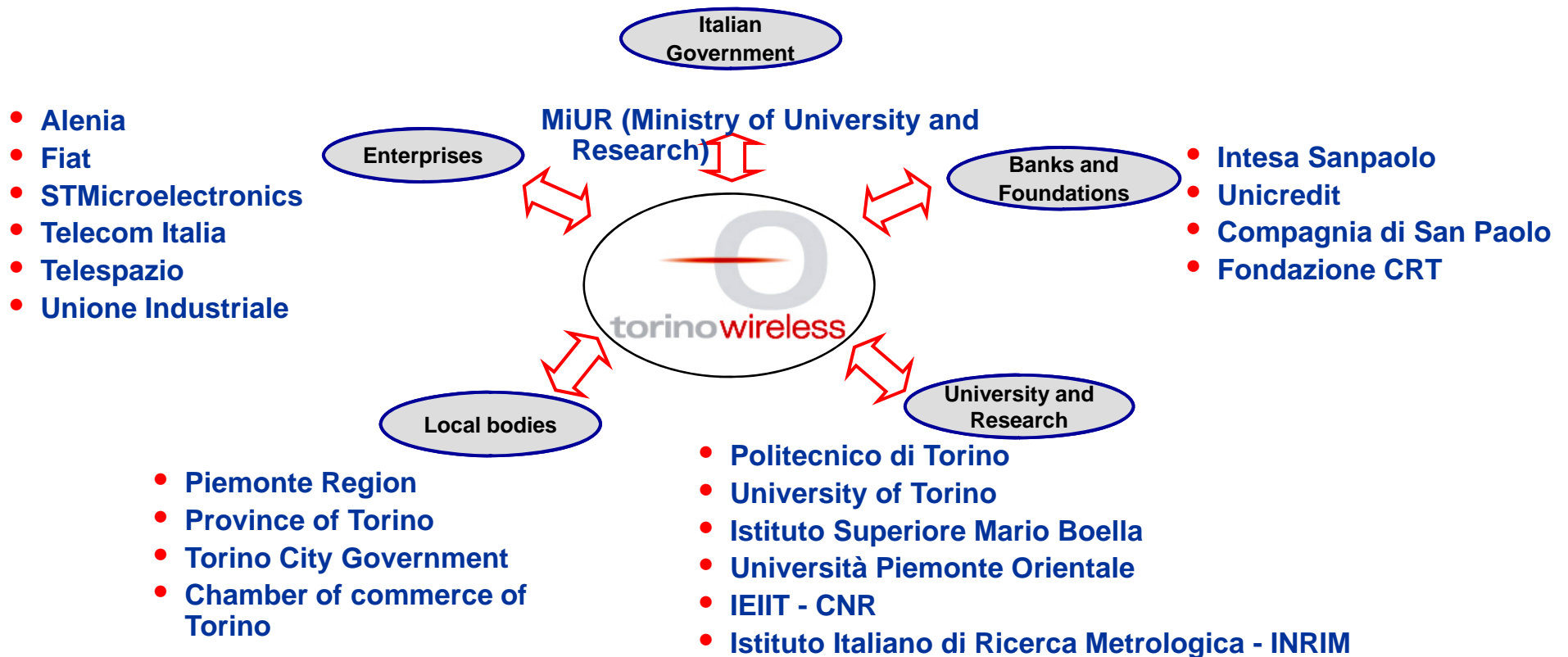


The Torino Wireless Foundation



Creation: established in 12/2002 and operating since 09/2003

Nature: private non-for-profit foundation built on a wide public-private partnership bringing together national and local governmental bodies, research centers, enterprises, banks



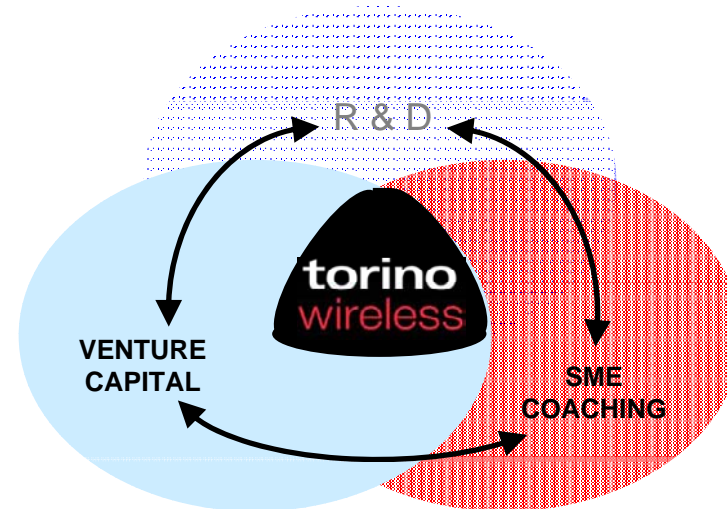


Torino Wireless mission



*“(...) to create and develop the **Piemonte Technology District**, by increasing ICT contribution to regional economy and by positioning Piemonte amongst the international most innovative clusters”*

(art. 3.2 , Torino Wireless by-laws)



Integration between R&D, entrepreneurship and financial resources



Enterprise Acceleration: mission



To accelerate high potential enterprises by means:

development of innovative
product and **services**



market development

new **target customer**

new **countries** (geographic expansion)



development of **skills** and **competences**

technical / R&D area

managerial / business area

relation / collaboration / co-opetition area





Alenia SIA



Alenia SIA contributed to the definition of an activity plan, to better coordinate the work between partners (i.e.: SMEs, Research groups).



The plan prepared by Alenia SIA defined:

- The role of the winning SMEs after adjudication of the call for tender;
- The responsibility of the work package leaders in charge of coordinating the technical activities of the SMEs;
- Technical review procedure on deliverables (software, hardware and documents);
- Delivery software formats;
- Delivery document format;

The activity plan written by Alenia SIA helped to steer the technical activities according to the project scheduling, managing unexpected delays



Intecs S.p.A.



Intecs S.p.A. participated to the IRGAL project after the adjudication of the call for tender, promoted by Torino Wireless Foundation in according to procurement rules



Intecs S.p.A. - Italian private SME, with more than 200 professionals. Headquarters are in Rome, other operational sites are located in Pisa, Naples, Milan, **Turin**, Cagliari and Toulouse (France).

Intecs S.p.A. contributed to the realization of parts of the GPS-Galileo Software Receiver:

- Development of the Graphical User Interface;
- Development of the USB firmware and driver for the IRGAL front end
- Development of algorithms for PVT computation (Navigation Message extraction, Least Square Method, Kalman Filter, Application of EGNOS corrections to PVT)

Intecs S.p.A. has been coordinated by ISMB and Politecnico di Torino (NavSAS group)



Intecs S.p.A. participated to the IRGAL project after the adjudication of the call for tender, promoted by Torino Wireless Foundation according procurement rules



Novasis Ingegneria S.r.l. - Italian private SME, located in Orbassano (TO), focusing on hardware design, firmware and software development, prototypes.

Novasis S.r.l. realized the discrete component version of the RF GPS-Galileo Front end:

- Dual channel Front end;
- Able to receive GPS L1 and L2 signals, Galileo E1, E6, E5a, E5b signals;
- Flexible tool suitable for lab prototypes and GNSS applications

Novasis Ingegneria S.r.l. has been coordinated by ISMB and Torino Wireless Foundation



Achievements



- 2 PMI benefit of the IRGAL Technology transfer process
- A precompetitive integrated solution (HW + SW) has been developed.
- An improvement of the Piedmont excellence in Satellite Navigation Communication and Galileo System.



Insert Outline



Acknowledgements

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