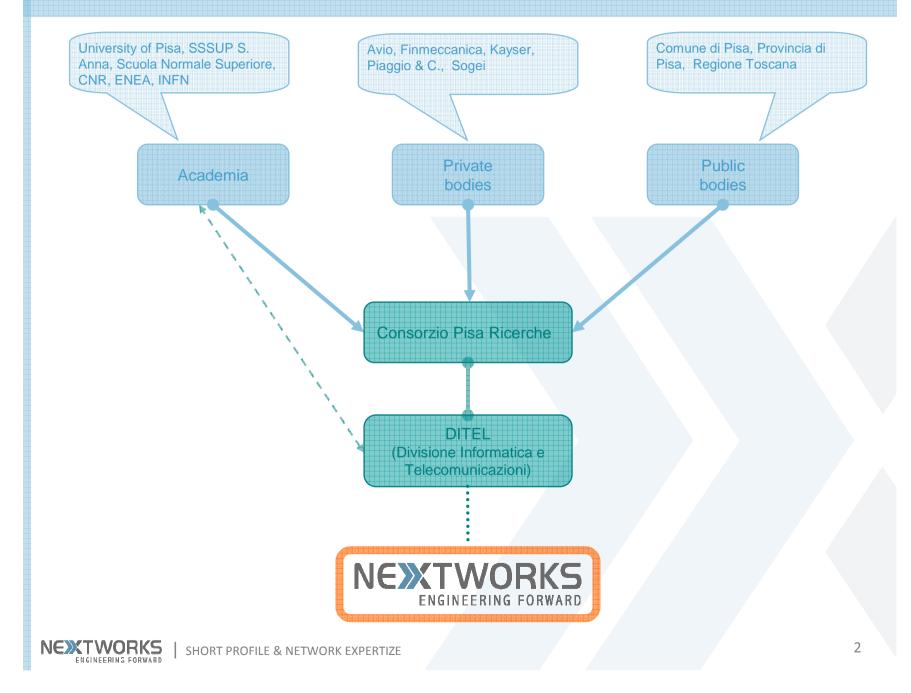


Nextworks Brief company profile

www.nextworks.it

Genesis of Nextworks



Company information (1/3)

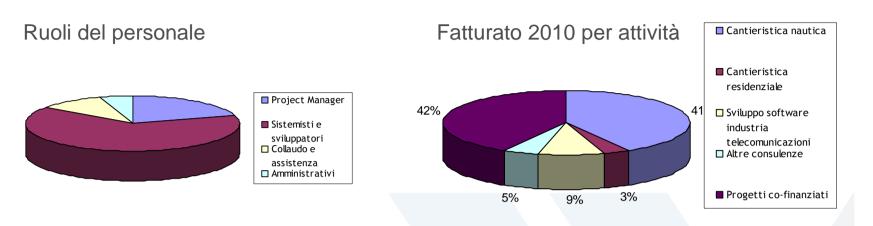
Est. year	2002
Staff	24 people
Profiles	100% graduates, 95% ICT
Headquarters	Pisa
Annual sales (2010)	~ 2.4 M€

□ Main strengths

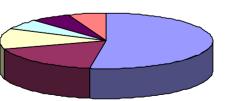
- Strong focus in a well defined set of ICT technologies and architectures
- Specialized in integrated systems' engineering and consultancy
- Long experience in planning and execution of co-financed R&D projects, both in national and European contexts



Company information (2/3)

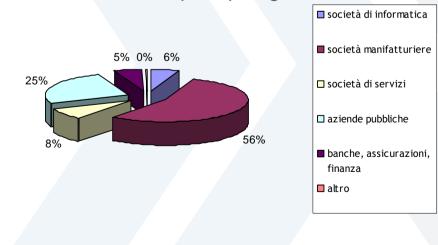


Titoli di studio



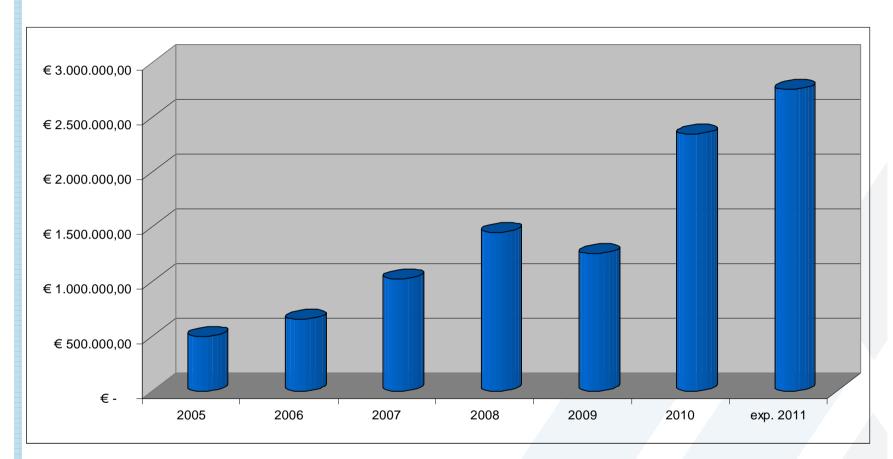


Fatturato 2010 per tipologia di cliente



NEXTWORKS | SHORT PROFILE & NETWORK EXPERTIZE

Company information (3/3)

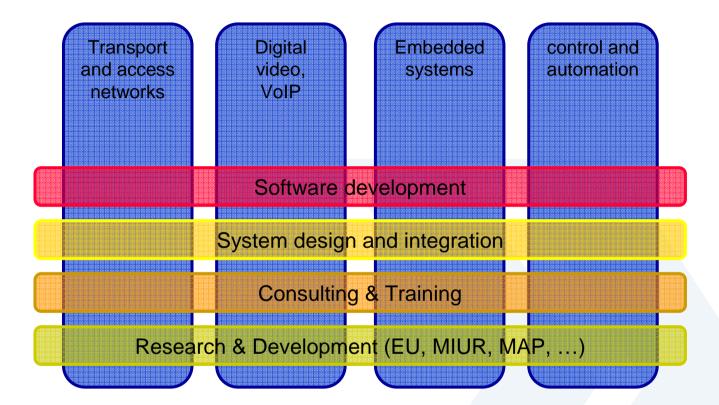


Annual sales



SHORT PROFILE & NETWORK EXPERTIZE

Technical Areas and Business Activities





SHORT PROFILE & NETWORK EXPERTIZE

Activity areas

Two divisions

KNOWLEDGE

(⇒ research, consulting, 3rd-party development mostly on networks)

PRODUCTS

(\Rightarrow entertainment, domotics, control & automation systems for residential and yachting markets)

Technology domains

- Packet networks (IP, Ethernet) and core transport networks (WSON, MPLS-TP, SONET/SDH, OTN)
- Architectures & standards (IETF, OIF, ITU, OGF, MEF, IEEE, etc.) for signalling and routing
- Digital video coding & transport (IETF, MPEG), Voice over IP (ITU-T, IETF)
- Industrial control and automation systems
- Embedded systems



"KNOWLEDGE" DIVISION



Design and development industrial activities

- ASON/GMPLS control plane stack for SDH and WDM devices (Linux / VxWorks / pSOS boards)
- Transport Ethernet E-LINE/E-LAN control components of a hybrid TDM-GbE switching equipment (Linux PPC boards)
- T-MPLS/MPLS-TP data plane software agents for a hybrid TDM-GbE switching equipment (Linux PPC boards)
- Extensions to a commercial GMPLS PCE server
- ✤ GMPLS I&V on SDH and WSON equipment
- NXW-GMPLS, an ASON/GMPLS and PCE Control Plane (internal project)
- System software on radio base stations
- Support for network architecture and service operations

Activities carried out for Ericsson, Alcatel-Lucent, Interoute, Siemens, Selex Communications, Marconi Communications



Relevant ongoing/recent internal R&D projects

[JunOS-SDK] User/service provider defined network applications

- Integration of a Path Computation Client in the JunOS-SDK Interfacing Juniper LSRs to external Path Computation Elements for operator defined routing policies
- Easing BGP configuration / operation for network operators Automating BGP fine tuning (load balancing, recovery, etc.)
- Enhanced network monitoring

Collecting and correlating different network statistics for more effective network operation

- Investigating emerging trends and technologies
 - Network + Cloud Control Plane (Cloud-to-network interface)
 - Virtualization of network resources
 - Energy efficient networks
 - Sub-wavelength switching in metro networking
 - Openflow architectures

Co-funded through EU-FP7 projects GEYSERS, ETICS, MAINS, CHANGE, ...



Customers and partners

- Network vendors
 - Alcatel-Lucent Italia
 - Ericsson
 - Selex Communications
 - Nokia Siemens / Technolabs
 - Adva AG Optical
 - Marben
 - Italtel
 - Nortel
 - Thomson
 - HP
 - Hitachi
 - Radcom
- Cloud & IT
 - SAP

- Network operators
 - Interoute
 - Telefonica I+D
 - France Telecom
 - Wind
 - Telecom Italia
 - Eutelsat
 - British Telecom
 - Deutsche Telecom
 - Telenor
 - Primetel
 - Polish PTT
 - Etisalat (UAE)
- Shipyards
 - Azimut Benetti Yacths
 - Leopard Yachts
 - Viudes Yachts



Research partnerships

- Alcatel-Lucent Bell Labs (FR)
- NEC Europe (DE)
- University of Pisa (IT)
- CNR (IT)
- Consorzio Pisa Ricerche (IT)
- Poznan Supercomputing and Networking Centre (PL)
- INRIA (FR)
- Fundació i2CAT (ES)
- Universiteit van Amsterdam (NL)
- University of Essex (UK)
- Research and Education Society in Information Technologies (GR)
- Technical University of Braunschweig (DE)
- Interdisciplinary Institute for BroadBand Technology (BE)
- Indian Institute of Technology (IN)

- Politecnico di Milano (IT)
- FTW (AT)
- Institut Telecom (FR)
- Universite de Versailles (FR)
- Technion Israel Institute of Technology (IL)
- Athens University (GR)
- Universidad Autonoma de Madrid (ES)
- University College London (UK)
- Lancaster University (UK)
- Universite Catholique de Louvain (BE)
- Technische Universitat Berlin (DE)
- Universtitatea Politehnica din Bucuresti (RO)



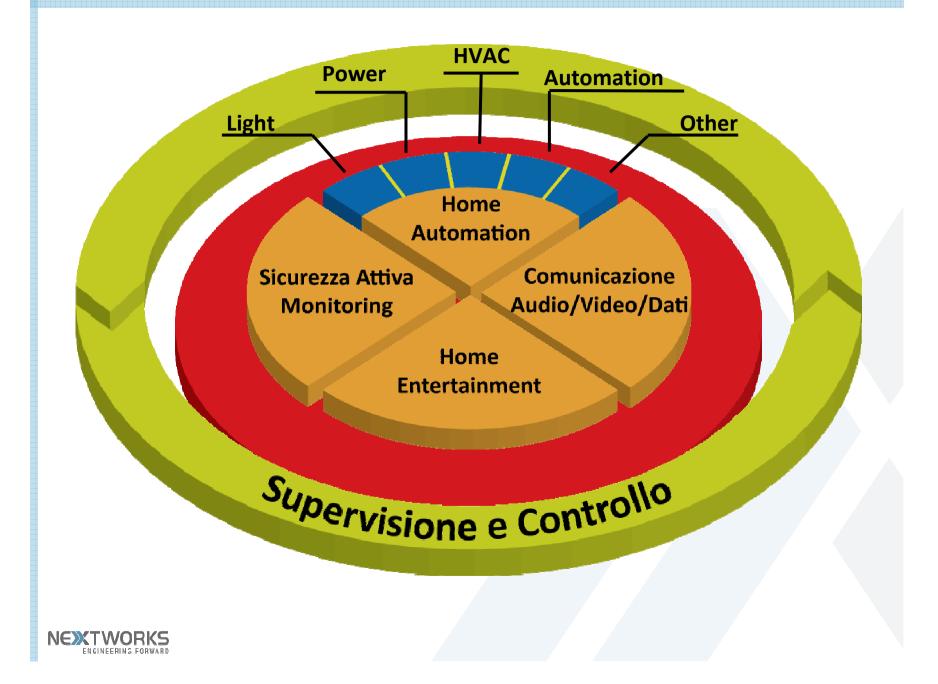
PRODUCTS DIVISION



Digital Living Environment – concept



Digital Living Environment – architecture



Benetti's Exclusive Sea Technology



- Strong partnership with Azimut Benetti shipyard, started in 2005, to develop and install a new integrated system encompassing all the on board digital services: BEST[®]
- BEST is a sophisticated technological solution covering entertainment, domotics, communications, automation and ICT, specifically designed for the yachting market and adopted as a *standard* by Benetti for all its steel and composite yachts
- Nextworks designed and developed the system, and currently takes care of installation, maintenance and assistance on about 20 yachts









SeaLux



□ Una linea di prodotti pensata e realizzata espressamente per il mercato nautico

- Intrattenimento
- Living
- Videosorveglianza
- Networking
- Comunicazioni





Symphony



- □ A complete solution for the integration of
 - Multimedia entertainment (TV, audio / video on demand)
 - Voice/video/data communications
 - Domotics, video surveillance and intrusion detection
 - Interfacing with several custom automated systems (pool, wine cellar, irrigation system, ...)
- Integrated: every device in the system is always connected to all the others, and exchanges information to provide effective end user services
- □ Easy to use: a consistent and intuitive user interface to control all the functions





For further info...

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