



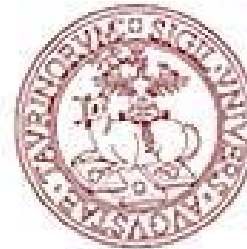
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Engaging the Clean Tech Challenge

Bruno Quarta, Strategy and Operations Director
Common Strategic Task Force - Torino, 24 January 2013

Università degli Studi di Torino

a long research tradition

- ✓ Founded in 1404, UNITO is one of the **most ancient Italian universities**, with a long lasting international tradition
- ✓ It carries out scientific research and courses in **all disciplines**, except Engineering and Architecture
- ✓ After a recent national reform (2010), it is now organized in **27 Departments** carrying out both research and education

UNITO - Facts and Figures

- ✓ Students: ~ **70,000**
- ✓ Phd: out 2012~**300**
- ✓ Postgraduate and post doctoral students: **1,500**
- ✓ Professors and Researchers: **2,025**
- ✓ Administrative staff: **1,900**
- ✓ Annual research publications: ~ **9,000** articles on scientific journals, (data referring to the last 5 years)

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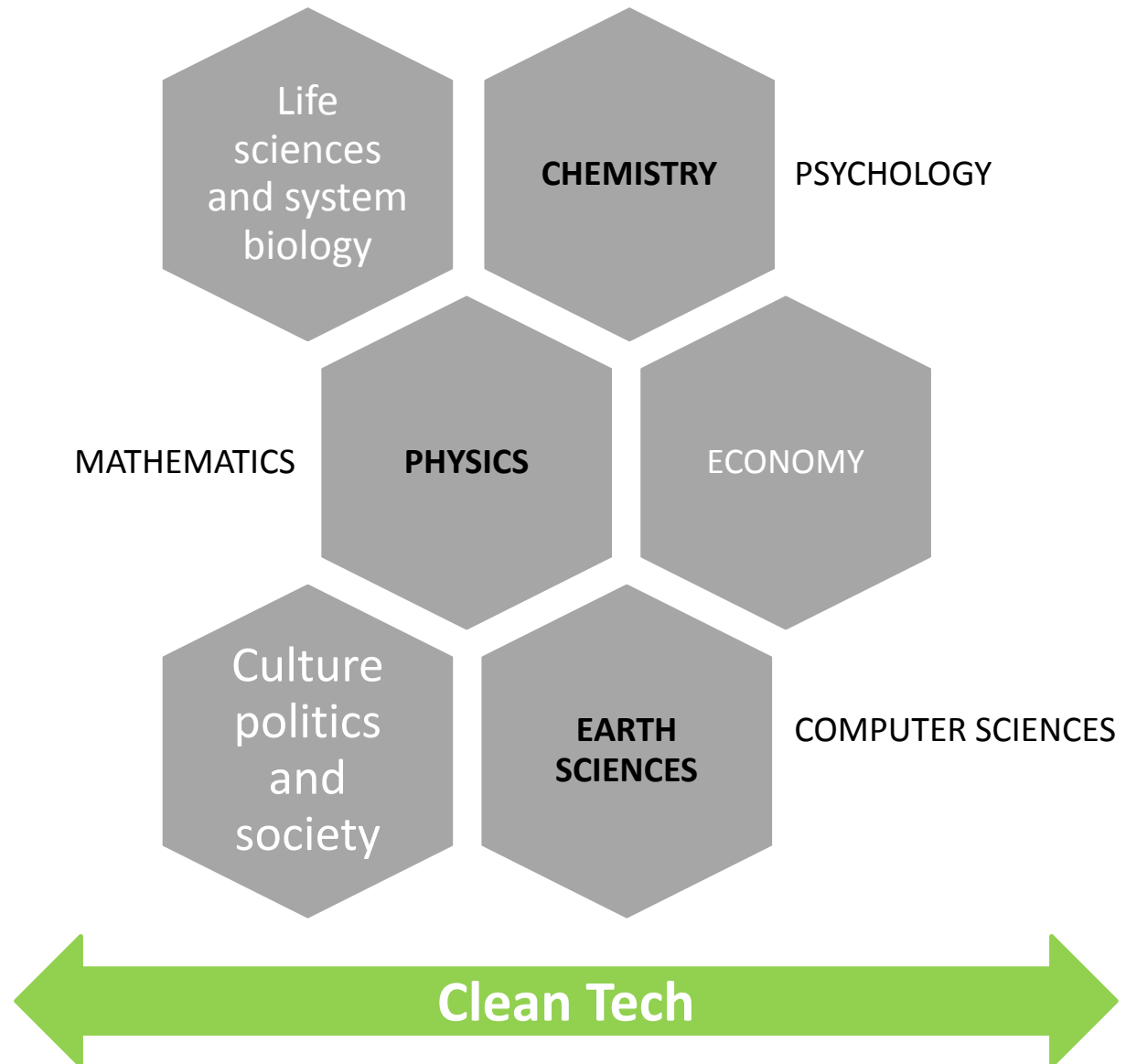
- ✓ **672.436,44** m² buildings
- ✓ **120** buildings
- ✓ TurnOver > **800M€**

UNITO – 27 Research departments

- Life sciences
- Science
- Humanities
- Social sciences

- **Excellence Research Center:**

- **NIS**
(Nanostructured Interfaces and Surfaces)
- **CEBIOVEM**
(Excellence Center on Vegetal Biology)



Recent Proposals submitted FP7

	Research	Networking	Mobility	Grand Total
Year of submission				
2011	93	5	6	104
2012	158		46	204
Grand Total	251	5	52	308

Clear Acceleration on Clean Tech

Year of submission	Grant scheme	# Proposal submitted
2011	Mobility	1
	Networking	1
	Research	14
2011 Total		16
2012	Mobility	7
	Research	24
2012 Total		31
Grant Total		47

**13 on-going projects
(funded 2007-2012)**

Clean Tech: a *must have*

Any **technology, process**
or societal/behaviour change that can :

- reduce raw material usage
- reduce waste production

having (eventually) a ***positive impact*** on
people, or the planet

UNITO **CLEAN** Technology Scouting

GREEN CHEMISTRY

EMISSION REDUCTION

GOODS PRODUCTION

WASTE

WATER MANAGEMENT

PLASTIC SUBSTITUTION

CO2

RAW MATERIALS

ENERGY STORAGE

ENERGY PRODUCTION

ENERGY EFFICIENCY

OTHER

WATER MANAGEMENT

- recycling
- control
- pollution
- river basin management
- other

ENERGY PRODUCTION

- renewable – wind, solar, photovoltaic, marine
- bioenergy
- hydrocarbons
- hydropower
- fuel cells
- biomasses
- other.....

**working method shared
with local partners**

UNITO Research contribution

basic technologies

enabling

engineering processes

processes to raw materials

carbon capture and storage

support knowledge to eco-efficient manufacturing

renewable use of materials

mechanisms of remediations of pollutants

high performing materials and coatings

UNITO Research contribution

basic technologies

enabling

engineering processes

Studying impact and rational

From Research Labs to Incubation

Activity	Checked
Research funding	Ongoing - ✓
Research output	≈ / ✓
Incubation infrastructures	✓
Investment infrastructure	failing → Horizon 2020/COSME
Entrepreneur	limited

Investing on Individuals

Our challenges

- Engaging with other research and development institutions to ***realise ideas***

- Pushing basic technologies to industrial development to ***reach tax payers***
- High involvement of (new) local SMEs, also to ***allow our students to find a job***

Clean Tech Incubation

Buon lavoro

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