



Agenzia nazionale per le nuove tecnologie,
l'energia e lo sviluppo economico sostenibile

ENEA: 40 anni di progetti europei e future prospettive livornesi

Livorno, 28 Maggio 2018

The screenshot shows the ENEA website interface. At the top, there is a navigation bar with the ENEA logo and the tagline 'Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile'. Below this, there are several menu items: HOME, ENEA, RICERCA/SVILUPPO, ATTIVITÀ INTERNAZIONALI, OPPORTUNITÀ, SERVIZI A IMPRESE E PA, LABORATORI & IMPIANTI, SEGUICI, and INFO. The main content area features three large images: a road through a green landscape, a sunset over a field, and a house with solar panels. Below these are three columns of news articles:

- CITTADINI**: "DAVID PRATICO DETRAZIONI FISCALI" - finanziaria2018.enea.it
- IMPRESE**: "Atlante dell'Innovazione tecnologica e il Servizio Industria ed Associazioni imprenditoriali" - Se siete un'Impresa e volete conoscere tecnologie, processi e servizi frutto della ricerca ENEA che possono esservi utili, potete consultare l'Atlante dell'innovazione tecnologica...
- PA**: "Disponibili le Linee guida per presentare i Progetti di Riqualificazione Energetica degli edifici della Pubblica Amministrazione Centrale (PREPAC)" - Se siete una Pubblica amministrazione centrale interessata a presentare progetti nell'ambito del Programma per la Riqualificazione Energetica degli edifici della PA Centrale (PREPAC), potete consultare le Linee Guida con...

On the right side, there is an "Eventi" calendar with the following entries:

Eventi	Opportunità	Avvisi
mag 29	"CAPPOTTO MIO" Riqualificazione energetica, ecobonus, sisma bonus	29 maggio 2018, Roma
mag 30	Inaugurazione del supercalcolatore CRESCO 6	30 maggio 2018, Portici (NA)
mag 31	International Workshop on Supercapacitors and Energy Storage	31 maggio - 1 giugno 2018, Grand Hotel Salerno, Salerno, Italy
mag 31	Presentazione e lancio ICESP Italian Circular Economy Stakeholder Platform	31 maggio 2018, Roma
mag 31	Trasferimento tecnologico in ENEA Verso un ecosistema per l'innovazione	31 maggio 2018, Roma
giu 6	PUBLiNEF Buone pratiche per l'efficienza energetica nella PA	6 giugno 2018, Palermo

Stefano Gazziano - Dipartimento Efficienza Energetica



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Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile

ente di diritto pubblico finalizzato alla ricerca, all'innovazione tecnologica e alla prestazione di servizi avanzati alle imprese, alla pubblica amministrazione e ai cittadini nei settori dell'energia, dell'ambiente e dello sviluppo economico sostenibile (art. 4 Legge 28 dicembre 2015, n. 221)

- Fondazione: CNRN, 1952
- Circa 3000 persone
- 300 milioni di budget
- 11 centri di ricerca in Italia
- Sedi regionali
- Ufficio europeo a Bruxelles
- 2 basi italiane in Antartide

The screenshot shows the ENEA website interface. At the top, the ENEA logo and name are displayed, along with a search bar. Below the header is a navigation menu with categories like HOME, RICERCA SVILUPPO, ATTIVITÀ INTERNAZIONALI, OPPORTUNITÀ, SERVIZI A IMPRESE E PA, LABORATORI & IMPIANTI, SEGUICI, and INFO. The main content area features several news items:

- Ecobonus 2018:** A notice about the possibility of transmitting data on energy efficiency interventions (50% to 85%) and concluding them by December 31, 2017, via the 2018 financial portal.
- Atlante dell'Innovazione tecnologica:** A resource for companies and associations to access research results and services from ENEA.
- PREPAC:** Information about the availability of guidelines for the energy renovation of public buildings.

On the right side, there is a table of events, opportunities, and notices:

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ENEA in Europa

- Partecipiamo a programmi europei ed internazionali dalla ns fondazione
- [119 Progetti in corso nel 2018](#)
- [Il Database Progetti Europei](#)
- Tasso di successo del 20% doppio rispetto alla media europea.
- 20% dei progetti partecipati sono a coordinamento ENEA
- 40 milioni di euro di finanziamento (progetti in corso 2016)
- [Rapporto annuale «Contratti enea con la Commissione europea»](#)



Ricerca: ENEA, progetti Ue in crescita da 31 a 55 (+80%) nel triennio

9/8/2017

Un tasso di successo del 20 per cento, doppio rispetto alla media europea.

Nell'ultimo triennio i progetti di ricerca e innovazione dell'ENEA finanziati dall'Ue, in particolare nell'ambito del programma Horizon 2020, sono cresciuti dell'80% passando dai 31 del 2014 ai 55 del 2016. Sempre in questo periodo, i progetti dell'Agenzia per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile hanno ottenuto un tasso di successo del 20%, circa il doppio rispetto alla media europea (11,8%)[1]. È quanto emerge dal rapporto "[Contratti ENEA con la Commissione europea](#)", appena pubblicato, che evidenzia un totale di 154 progetti a partecipazione ENEA in corso al 2016, pari a un importo complessivo per l'Agenzia di quasi **40 milioni di euro**. I maggiori Paesi partner in progetti europei sono la Germania e la Francia, seguiti da Spagna e Regno Unito.

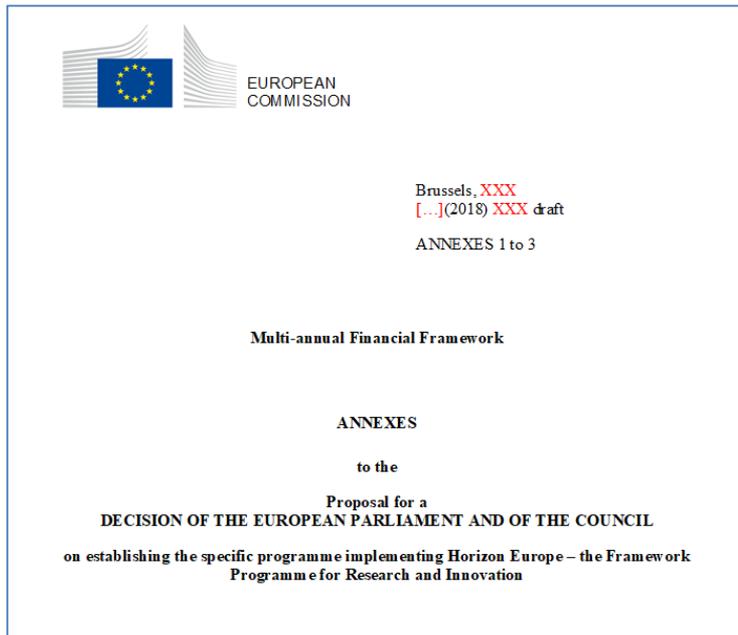
L'ENEA risulta in buona posizione anche nella gestione dei progetti stessi in qualità di team leader: infatti, rispetto ai progetti Ue ancora in corso nel 2016 ne coordina 30, ovvero circa il 20% del totale, interfacciandosi tra i soggetti proponenti e la Commissione europea.

Il maggior numero di progetti acquisiti è nel settore energetico (53,5%), seguito da quello ambientale (10,6%); nel campo dell'energia ai primi posti per contributi ricevuti, le fonti rinnovabili e la fusione nucleare. Rispetto al passato, l'attività progettuale nell'area energia risulta sostanzialmente invariata, quella nell'area ambiente in lieve calo, mentre è cresciuto il numero di progetti nell'area sicurezza (10,3%). La vera novità è rappresentata da nuovi settori come quello dei *materials* e dei *raw materials* (8%).

"L'incremento dei progetti acquisiti nel triennio va interpretata tenendo conto che nel 2014 è iniziato il programma H2020 e, come in tutte le fasi analoghe di avvio, si sconta un fisiologico periodo di studio e apprendimento delle pratiche, anche burocratiche, per la presentazione dei progetti", spiegano le autrici del rapporto Anna Pibiri e Caterina Salvadego dell'ENEA.

Ulteriori dati sono disponibili sul sito progettiue.enea.it

Il prossimo quadro dei progetti europei



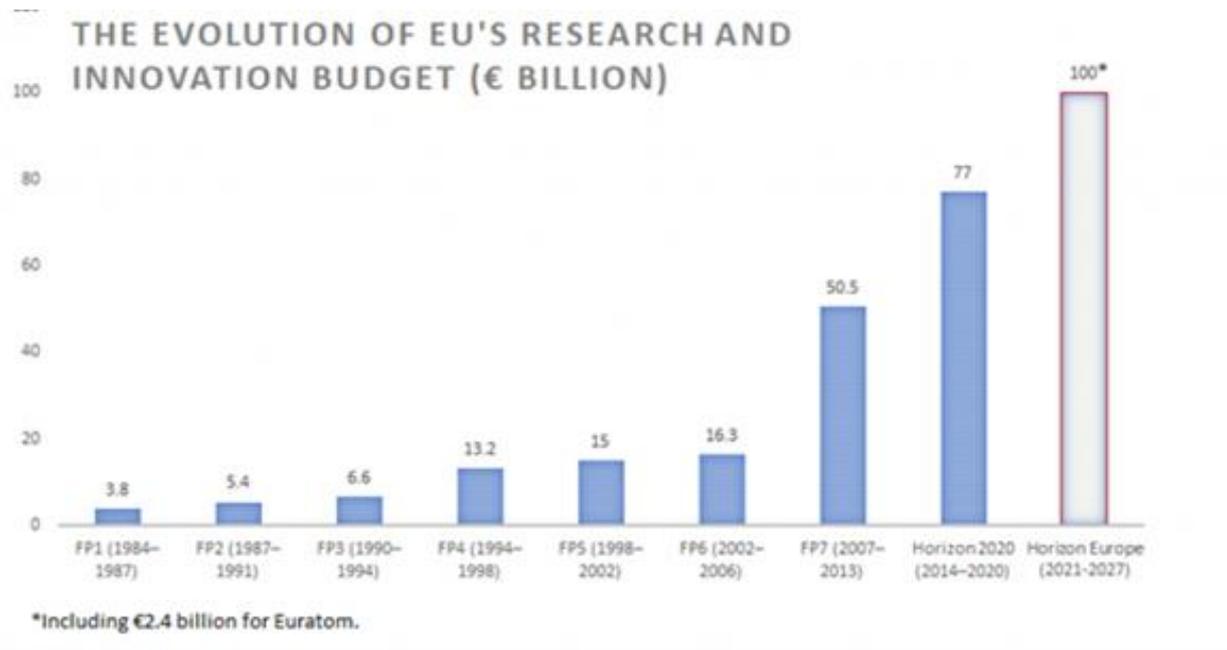
Horizon Europe, il nono programma quadro della ricerca europea, si articolerà in «Missioni»



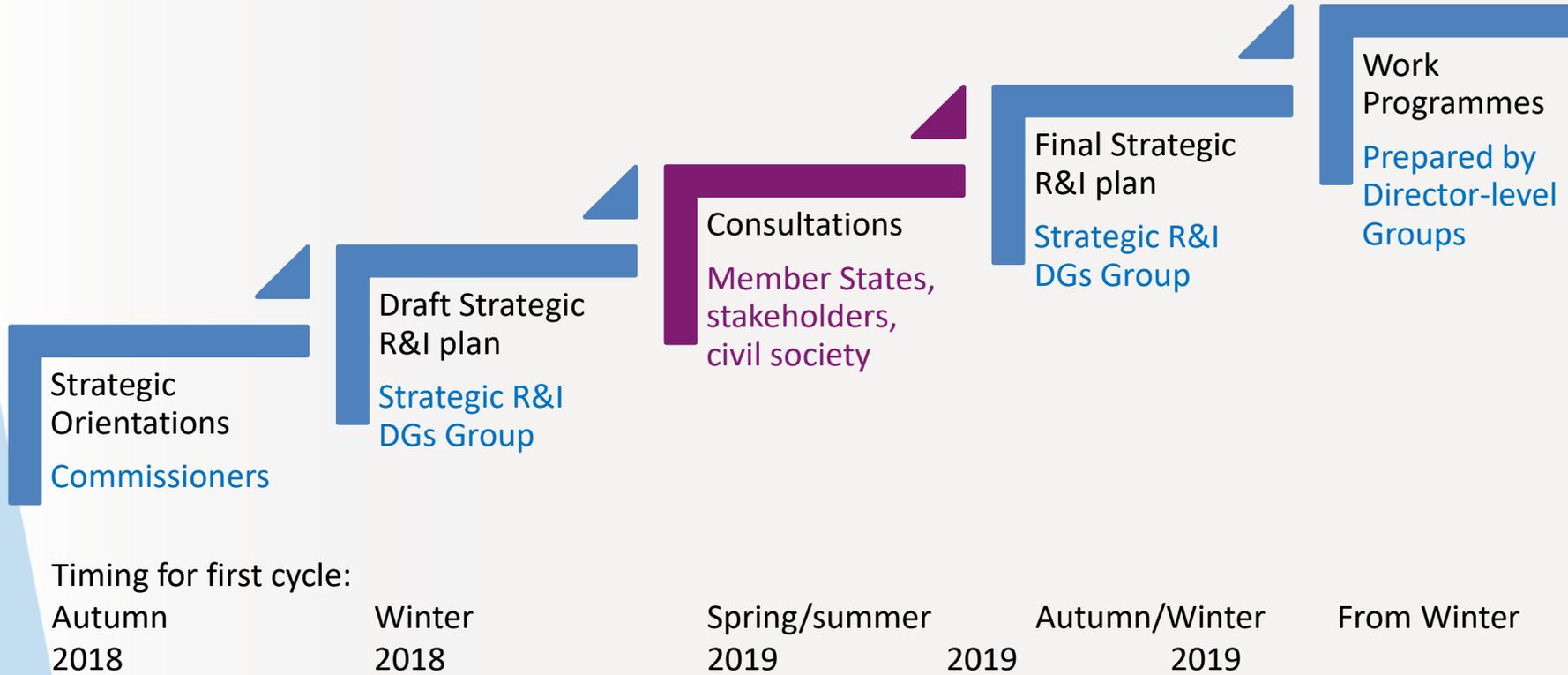
HORIZON 2020
HORIZON EUROPE
(2021-2027)

Horizon Europe

- Horizon Europe stanzierà 100 miliardi di euro per la ricerca, sviluppo ed innovazione dei paesi membri della Unione Europea
- Sarà il singolo più grande quadro di finanziamento della ricerca ed innovazione mai varato al mondo (attualmente, il FP8 «Horizon 2020», è il più grande)
- Sarà articolato in «Missioni», obiettivi da raggiungere, più che branche della scienza o temi da sviluppare.

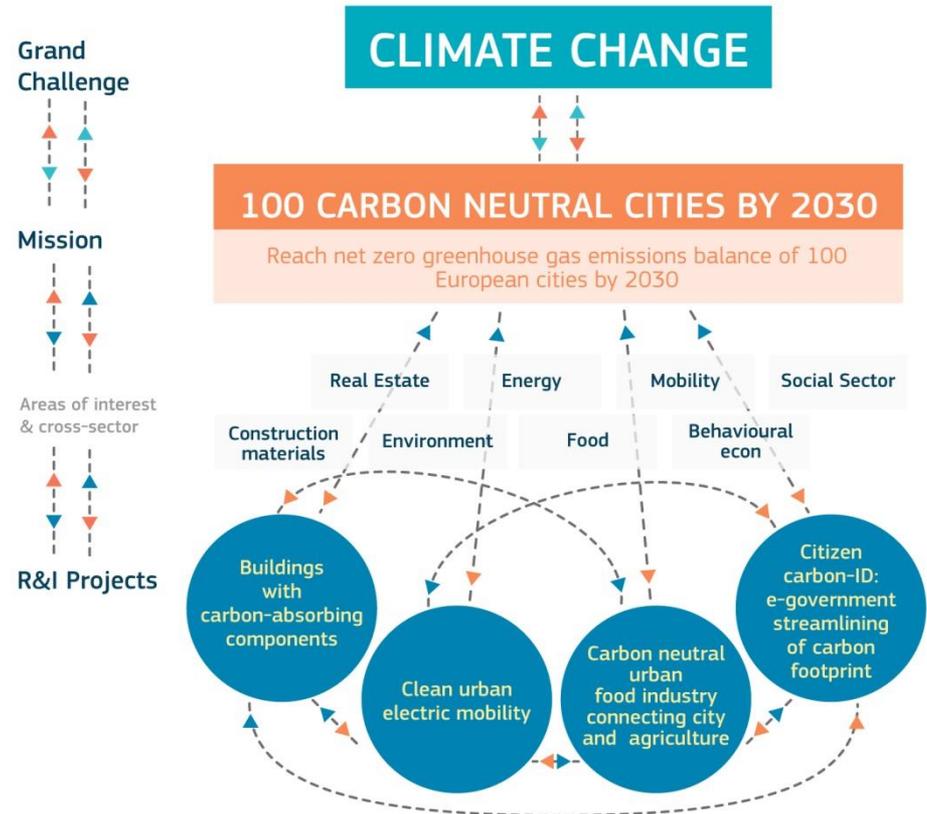


Programming and Governance of FP9



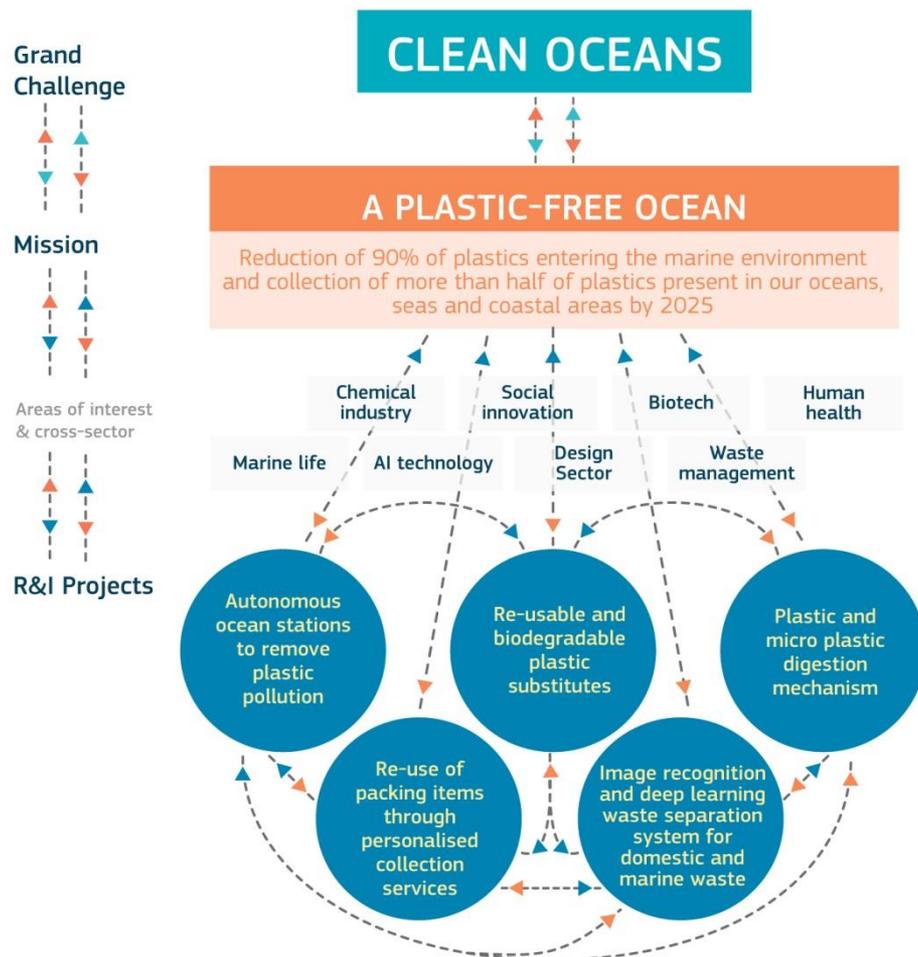
FUTURE EXAMPLE: 100 Carbon Neutral Cities by 2030

1. Impact 40% of European citizens
2. 100 cities by 2030
3. R&I in Construction materials – mobility – citizen carbon-ID
4. Urban planning-energy efficiency – mobility-behavioural economics
5. Simultaneous projects ->



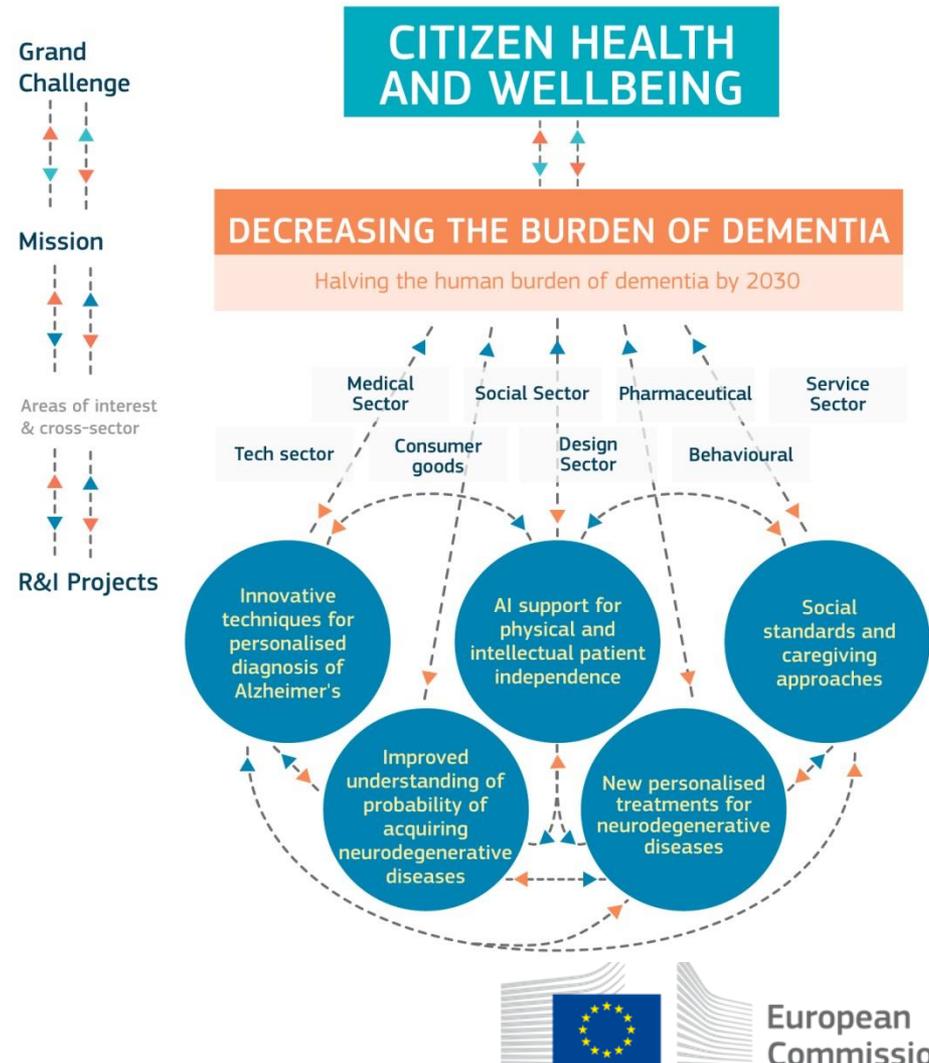
FUTURE EXAMPLE: A Plastic-free Ocean

1. Solve 25 mil tons of European plastic waste
2. Stop 7.2 mil tons and collect 2 mil tons of plastic by 2025
3. R&I in plastic chemistry-packaging – collection stations
4. Chemical – biotech – marine life – waste
5. Simultaneous projects ->



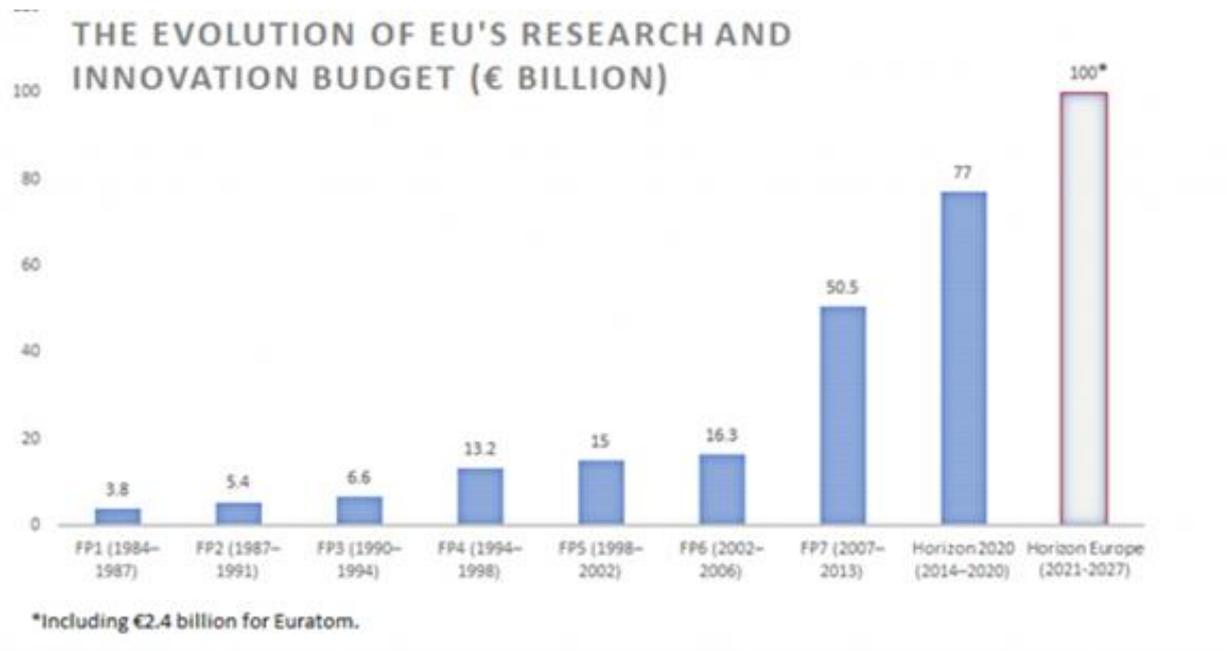
FUTURE EXAMPLE: Decreasing the burden of Dementia

1. Currently 10.5 mil Europeans affected
2. Reduce by 50% the progression of the disease by 2030
3. R&I on brain-science – treatments – artificial intelligence
4. Medical – Tech – Social – Design
5. Simultaneous projects ->



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ENEA e Livorno in Europa insieme

- Proposta CityIntel
- Livorno sul DB partner
- ... molto da fare ancora....



COMUNE DI LIVORNO

Livorno,27/01/2017

Subject : Horizon 2020. SCC1 2016-2017 Smart Cities and Communities lighthouse projects. Participation in the proposal "CityIntel" as Follower City

The Municipality of Livorno hereby expresses its interest in the "CityIntel" project, focused on smart city solutions from small to medium scale cities, in the area of buildings, smart grids and eMobility, and declares its commitment to perform the activities described in the project proposal, as approved by the Horizon 2020.

The demonstration of innovative technologies in the fields mentioned above represents an important opportunity for this Municipality, as it holds a great potential for positive effects on its territory through replication plans developed within the project for the replication of the smart solutions in cooperation with the R&D partner "ENEA" (Agenzia Nazionale per le Nuove Tecnologie, l'Energia e lo Sviluppo Economico Sostenibile).

Sincerely
The Mayor
Stefano Gazziano

Environment and urban mobility

Governor of Mayors

In 2013, the Municipality of Livorno joined the Governor of Mayors for Climate and Energy, the UE initiative which brings together local and regional authorities voluntarily committing to implementing the EU's climate and energy objectives on their territory to reduce CO2 emissions by at least and more 20% by 2020.

Urban Mobility

Thanks to the "InfoLi Project" - co-financed by structural funds 2007-2013 - the Municipality of Livorno set up a web portal of mobility aimed to provide information to citizens and visitors about:

- Circulation restriction Zones through access limitations (gates monitored by cameras)
- Park restriction Zones
- Car Parking, monitored in real time
- Car Parking (times and rates)
- Bike-Sharing
- Cycle-lanes
- Traffic sensors and traffic flow

The results of the project are available as good practise in the infomobility field.



Participation in European Projects

Since 2000, the Municipality of Livorno benefits from European structural funds for its investment policy, restoring important buildings and implementing new city services.

From 2008 to 2010, Livorno took part to the European project MAP (Mobile Adaptive Procedure, co-financed by the E-TCN European programme) as pilot site to develop a new technological platform to make it easier to give citizens the service they require.

From 2011 to 2013, it also took part to the Ue LLP - Longlife Learning Programme 2007-2013, hosting Comenius Assistants (English speaking teachers) in pre-schools.

Moreover, Livorno in partnership with others Italian regions and Corsica (FR), participated in cooperation projects co-financed by the European Cooperation Programme It-Fr Maritime 2007-2013.

The Municipality of Livorno is partner in the following ongoing UE projects:

"My Smart School" (co-financed by Erasmus plus 2014-2020) aimed to education for sustainable development.

"Adapt" (co-financed by Interreg Maritime 2014-2020) aimed to climate change adaptation of urban areas of the transboundary space.

By the Municipality of Livorno in partnership with ENEA



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ENEA e Livorno in Europa insieme



Livorno as a partner

The Municipality of Livorno is interested in participating in **HORIZON 2020** projects as pilot city, in particular about the following topics:

- Smart and sustainable cities
- Energy-efficient buildings and districts
- ICT for cities
- Smart cities and communities



Characteristics of the city

Livorno is in Tuscany, the centre of Italy, with approximately 160.000 inhabitants, n. 65.000 aged between 15-50. Its pivotal geographical position is provided with very good infrastructures through road network, railway network, Galileo Galilei Airport in Pisa. Livorno is a seaside city with old traditions. Historically, thanks to its port, it is a multicultural and open meeting place. It is an important industrial and trade centre in Tuscany and it is the seat of the Italian Naval Academy. This City is close to the main Tuscan historical and artistic centres (Pisa, Volterra, Florence), and gave birth to great artists such as Amedeo Modigliani and Giovanni Fattori.



Objective: Smart City 2020

Livorno has been working on two investment lines for years:

- improving the technological structures in its area to become a smart city;
- fostering enterprises and R&D in the Hi Tech ICT.

The challenge of this territory is to become a technological platform and a service hub for companies and people, creating a technologically advanced and innovative integrated system. Livorno brings out the most of its excellent products, often part of market niches (entrepreneur process of discovery), by supporting:

- promotion of innovative projects through the several research and training centres;
- start-up companies and the creation of company networks: local, regional and international networks;
- companies investing in the area.

Digital PA

The Municipality of Livorno used ICT to innovate enterprise services, simplify procedures, and reduce "red-tape times". In 2013:

- 10,543 Wi-Fi users registered
- 27,659 civil registry files on line
- 67,562 accesses to the Citizen Help Desk
- 25,608 electronic messages (PEC and InterPRO)
- 56,148 accesses to the Business Help Desk
- 90% of purchases or contracts fully digitised

The Port

The Port of Livorno is one of the most important ports in the Mediterranean Sea both for ferries and cruises and goods traffic, ranked Big Regional (first level) in the Tyrrhenian Corridor by Freight Leaders Club. It is a multi-purpose seaport provided with infrastructures and means welcoming any kind of ship, handling any kind of goods categories and any kind of traffic (LCL, RORO, RORO rolling stock, liquid or solid bulks, new cars, cruises, ferries, forest products, machinery, etc.). Together with the A. Vespucci Freight Terminal, it is the basis of the logistic system of Tuscany and Italian goods handling.

The Port Authority of Livorno drew up a development programme called "**Green Port Extended**" aiming to invest mainly in 6 fields: environment, energy and resources, infrastructures and services, integration with the territory, port knowledge and innovation, financing on costs, fees and financial mechanisms.



R&D and Innovation

The Universities of the academic centre of Pisa are actually integral part of the Livorno territory, many students and researchers actually live in the Livorno area. Livorno is the seat of Research and services Centres:

Marine Robotics and Technology Research Centre (Scoglio della Regina)

www.sesup.it
The new Research Centre in the field of Marine Technologies and Robotics originates from advanced robotics (ArtisLab) and micro/nanoeengineering (CrimLab) laboratories of the Scuola Superiore Sant'Anna, in the Sant'Anna Centre, Valdera of Pontedera (Pisa).

University Logistic System www.els.adm.unipi.it

It is a Service Centre of the University of Pisa to promote and carry out scientific research development and innovation in the logistic sector. The Centre plays an interactive and mutual role between the University and the local territorial system: without losing its international characteristics, the University is the driving force of a development process based on increasing the value of the peculiarities in the territory, thanks also to the establishment of a highly complex multifunctional service centre, capable of interacting with the main local socio-economic actors.




New Research Areas

Livorno created urban areas dedicated to research in the hi-tech ICT field – European states-of-the-art innovation laboratories: "Scoglio della Regina" and "Doggina d'Acqua", co-financed by Integrated Plans 1). The renovated and refurbished areas will host laboratories and research centres, which may be connected with the companies in the area, in the common interest of joining research and production in the technological, marine or terrestrial fields, such as for instance Industrial BioRobotics, Research Centre on Sea Technology and Marine Robotics, laboratories in environmental field.



ENEA e Livorno in Europa insieme

Patto dei sindaci - 2013

Mobilità urbana – 2007-20013

Mobile Adaptive Procedure 2008-2010

My Smart School : 2014-2020

Adapt : 2014-2020

2020 - 2030

Città Pilota, grazie alle dimensioni,
localizzazione, impegno ed efficienza
della amministrazione

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