

Wood waste and wood

Prevention and upcycling

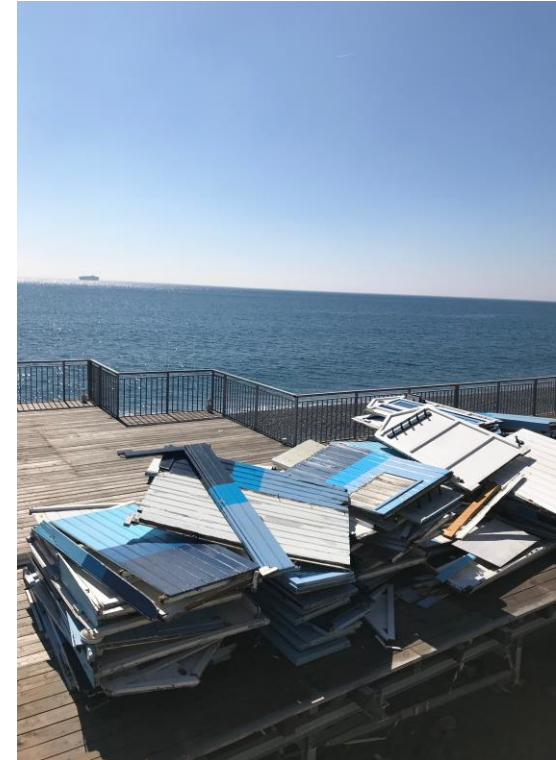
Stefania Manca/ Ilaria Marzoli

FORCE Lead @ CDG & AMIU Genoa



Key Challenges

- **Enhancing cascading use**, to unlock value hidden in wood waste stream
- Testing the **economic viability of new valuable streams** (driftwood and brushwood)
- Wood: **prevention of wood waste and provision of wooden resources** to promote new local economies and wood-to-energy short chains
- Bioeconomy: testing **new market applications** using different wood waste matrices to select profitable and sustainable streams.



Prevention and Upcycling **Genoa**

- **Post consumer** a network of Reuse centres (SURPLUSE) and WebApp Refresh.
- **Park and Garden waste** GIS System for urban green waste and City Green Management.
- **Driftwood** collection campaigns for costs and benefits analysis, not viable.
- **Brushwood (non waste)** urban regeneration to prevent hydrogeological risk; wood to energy local supply chain; Ailanthus eradication campaign.
- **Bioeconomy** use of lignocellulosic biomass, to produce different bioproducts; technology and market applications analysis.

Learnings

- **The value of prevention**, EU rating, education, mindset & lifestyle of the citizens.
- **Investments in research and development** to scale up the bioeconomy pilot activities.
- **Symbiosis platforms** to help potential markets for secondary resources.

Copenhagen

Collection of wood waste for professional use.

Collection of bulky wood waste for wood workshop.

Learnings

- Wood waste needs sorting etc. and is not always competitive.
- Wood workshops: good to engage volunteers and vulnerable citizens.

Hamburg

Production of firewood.

Shredding service for citizens and recycling.

Learnings

- Firewood production is a promising approach but economically not viable.
- More woody biomass can be collected to produce climate neutral energy

Lisbon

Increased separation for reuse

and recycling.

Pop-up Repair Cafés.

New brushwood separate collection scheme.

Learnings

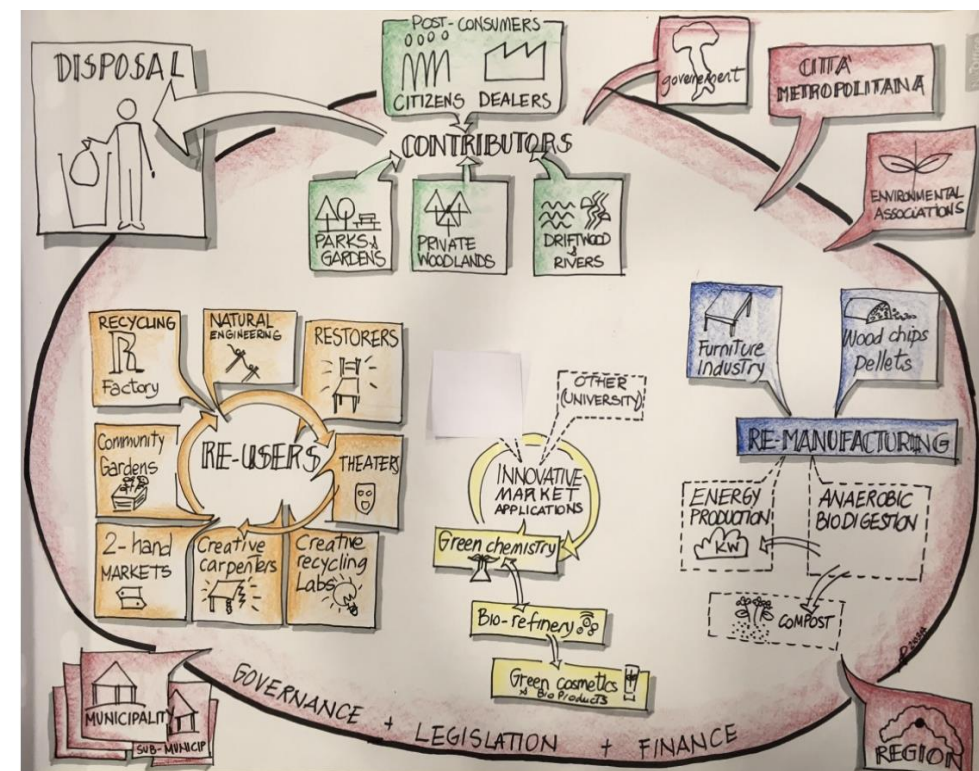
- Separately collected wood is highly accepted for recycling.
- Civil society plays a relevant role in wood reuse.
- Brushwood collection is susceptible to contamination.

Partnerships and value chains

A participative approach to analyze the value chain (picture) was used by Genoa, based on **active listening to identify needs.**

The VCBP worked on each need to develop tailored and innovative **co-designed solutions.**

134 people interviewed among public bodies, companies, professionals and associations.



Exploitation & replicability

Governance

Connected stakeholders, informed citizens, multi level collaborative projects.

Environment

Accessibility to overcome logistic issues, improved educational value, better separation of items, green jobs.

Social aspects

Improved people awareness, establishment of creative networking, effective wood items management at local scale, increased local biodiversity.

Economics

Efficient processing, new metrics for circular economy goals, proved estimation quantity for upcycling, second-hand market opportunities.

Thank You

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