

## **VOICES Public Event Ireland**

### **27 July 2013 – Dublin, Ireland**

#### **Science Gallery, Trinity College**

The Maker Faire is the Greatest Show (and Tell) on Earth; a free, all ages showcase of invention, creativity and resourcefulness; a celebration of the Maker movement; a vibrant gathering place for innovators, tech enthusiasts, educators, engineers, scientists, authors, artists, students, and exhibitors. The second annual Dublin Mini Maker Faire (DMMF) took place at Science Gallery and Trinity College Dublin: the ideal dissemination event for the VOICES outcomes in Ireland.

### **Highlights:**

#### **Workshop: Discussing VOICES**

A wall at the Maker Faire allowed visitors to submit their own barriers and concerns or ideas for solving urban waste problems and have a look at information collected from the Dublin VOICES focus group. There was also a space where visitors could "fund" the top ideas generated through the VOICES focus groups for dealing with urban waste problems.

#### **Workshop: Trash to Cash**

Visitors had a chance to try their hand at up-cycling waste objects turning their unwanted materials into something useful, highlighting how many materials can be reused – something at the core of the "Zero Waste society" discussed in VOICES focus groups. Visitors turned cardboard into a speaker for their smart phone, turned old clothing into cool accessories and drink cups into a funky light-fixture.

#### **Workshop: Micro Farm**

Highlighting Urban Farm's sustainable growing methods, [Andrew Douglas](#) built a mobile micro smart farm. Combining smart technologies & open source design the Smart Farm showcased low energy LED lighting, tweeting fish & plants combined with remote live monitoring all powered by renewable energies.

#### **Workshop: Tape Scrape**

[Tape Scrape](#) was an interactive exhibit consisting of a pair of oversized dj "turntables" and mixer, whose "needles" are repurposed playback-heads from cassette walkmans, on which visitors "scratched" using giant records made from the tape from old cassettes, as well as magnetic strips from old ATM cards, floppy discs and other magnetically recorded media. Visitors brought along old, unwanted cassettes to make into more "scratch records" too.

### **Workshop: Make and Take**

The Institute of Physics presented a range of scientific equipment that can be made from regularly available items, and invited visitors to come along and try their hand. They also launched paper rockets across Trinity College's cricket pitch!

## VOICES Public Event Italy

### October 25 and 15 November 2013 – Naples, Italy

#### Città della Scienza

Naples is a city that has had more than its fair share of experience on the topic of urban waste. During the waste crisis that peaked in the summer of 2008, the science centre Città della Scienza played a crucial role as an interface for the public, researchers and city government.

For VOICES, Città della Scienza once again brings the public together with industry players, associations, civil society organizations, universities and local authorities to share experiences about urban waste through a wide range of shows, performances, conferences, laboratories and workshops, working towards a zero waste society.

### Highlights:

#### **Conference: REDUCE and SAVE, Eco-Sustainable Strategies: Opportunities for Development and Employment**

**25<sup>th</sup> October, 09:00 – 13:30**

This [three-part morning seminar](#) featuring 11 speakers from across the fields of science communication, industry, research and NGOs addressed the issues of future energy and waste, innovative and environmentally sustainable technologies. It gave a voice to public enterprises, which have a key role in the collection and interception of waste materials, as well as the private and civil society, from environmental groups and citizens. The 30 VOICES focus group participants were invited to attend and their feedback from the project was presented.

#### **Activities on 15<sup>th</sup> November:**

##### **Film: Trashed - Towards Zero Waste**

This screening of the documentary “Trashed - Towards Zero Waste”, the new film starring Jeremy Irons which premièred at Cannes 2012, will be followed by a public debate. “Trashed” goes through the five continents, showing how waste pollutes air, land and oceans, not only putting our health in danger, but threatening the very existence of mankind. This screening is organised in partnership with Legambiente, WWF and Italia Nostra.

##### **Conference: From the land of waste to the land of flavours**

In Naples, for years the disposal of waste has been the prerogative of criminal organisations which have destroyed our land and the excellence of its agricultural tradition. The cooperative Resistenze will show ways the land has been cared for through the reestablishment of civic citizenship and proper disposal of waste.

##### **Workshop: DIY musical instruments with waste**

The rock group [Capone & BungtBangt](#) presents “the art of singing waste”, reusing common urban and industrial objects like cans, lids, wood waste, bags and anything else to transform them into musical instruments. The leader, Maurizio Capone, presents a workshop to convey

the concept of creative recycling, building and playing instruments from materials destined for the landfill.

### **Workshop: Compost at home**

Come and learn the basics of home composting - ways, customs, time, curiosities - and how to build a composter suitable for balconies and terraces, from materials easily accessible and economically affordable.

### **Laboratories: Creative reuse**

This workshop for children is dedicated to creative reuse. The kids take centre stage, learning how waste can be reused, recycled and reprocessed, resulting in a new cycle. The workshop will be led by the [Friarielli Rebels](#), a group of citizens fighting against the degradation of Naples and promoting the direct involvement of citizens in caring for their city.

### **Workshop: + design ZERO Waste**

How can we up-cycle waste using design tools? This workshop shows how designers can creatively interpret re-use, encouraging the emergence of new business initiatives with young designers, led by the Second University of Naples' [Department of Industrial Design](#).

### **Workshop: From waste to product design**

Separating and collecting waste is not only a task for the public, but can also provide new opportunities for employment. This workshop from [Formaperta](#), well known for its exclusive use of secondary raw materials, will show how they make beautiful pieces of furniture and fittings, minimizing the environmental impact of the manufacturing processes.

### **Workshop: Repurposed pavilion**

The [Urban Fab Lab](#) is part of the Città della Scienza's business incubator. It will open a public space with a participatory project using waste materials for the building components for a new city hall. The Fab Lab workshop will be a space for relations and outreach aimed at raising awareness on the issues of reuse and recycling.

### **Show: Biodiversity**

[Le Nuvole](#) presents a theatre show: "What is biodiversity?", "How can we protect it?", "What happens to waste?", "How resilient and sustainable are ecosystems?" The answers to these questions will be the focus of a theatre performance on informed life choices.

## VOICES Public Event Spain

### 16-17 November 2013 – Granada, Spain

#### Parque de las Ciencias

In Spain, VOICES focus groups highlighted what needs to change for a zero waste society, in terms of citizenship, policy, and research and innovation. The VOICES public event in Granada builds on these outcomes, with a Maker Faire, debates, workshops, pavilions and a range of exhibitions, bringing together the public, schools, research centres, politicians, universities, artists and craftsman to see how we can truly make the most of urban waste as innovation.

### Highlights:

#### **Debate: VOICES and urban waste as innovation**

The VOICES focus group participants will come together with people working at the local Alhendin waste treatment plant, local researchers and government and members of the public to discuss the experience of the VOICES citizen consultation and the importance of such public participatory processes in science policy making. What can these stakeholders draw from the VOICES results, and what are the concrete next steps?

#### **Workshops: Maker Faire**

Schools, research centres and universities will come together to show their projects on waste as a resource, through specific workshops. How can waste be reused and recycled? What innovative ways have our participants come up with that you can recreate at home? Join in the Faire and help us work towards a zero waste society in the most active and fun ways.

#### **Exhibition/workshops: Waste meets art**

Craftsmen and artists will present a wide array of projects related to recycling. This will include “Recycled projects”, fashion, furniture, jewelry, accessories, recycling in the design and production of exhibitions and a range of workshops for the general public. Lectures from artists will also give some theoretical insight into waste as a resource.

#### **Exhibition/workshops: Tecnoforo Pavilion**

This pavilion houses an exhibition: [Títeres, 30 años de Etcétera](#) which will be the starting point for a range of activities on urban waste. Join the puppetmakers for an interactive conversation on how they create their puppets, the different types of materials used, their properties and processes of transformation. Then create your own objects, using waste materials.

#### **Exhibition/workshops: Via Lactea Pavilion**

The Parque de las Ciencias exhibition [Nutrition: Source of life](#) will inspire an interactive workshop, where visitors can try out ways to make the most of leftover food, and recycle waste olive oil into handmade soaps.

### **Workshops: Reusing waste for all the family**

Families can come to the [Parque de las Ciencias](#) to find out new ways of reusing old CDs and waste paper. CDs and DVDs can be an excellent medium to design your engravings. And you can prepare craft sheets of paper with used papers, natural fibres and different decorations.

### **Workshop: Information Point**

Parque de las Ciencias is taking part in the Comenius Regional Partnerships Science education and Environmental Ethics. One of its main lines is Urban waste. Participants in the Project from the Museum and Granada's in-service teacher training centre will explain citizens' actions design in schools and institutions.

## **VOICES Public Event Slovenia**

### **22 November 2013 – Ljubljana, Slovenia**

#### **House of Experiments - Ustanova Hisa eksperimentov**

Wasteologies! Come and join the House of Experiments, the Slovenian “hands-on” Science Centre, in Gimnazija Ledina secondary school and on the streets of beautiful Ljubljana city centre, to get involved in the dissemination of the VOICES outcomes and look at ways urban waste can be used as a resource in Slovenia.

### **Highlights:**

#### **Conference/workshops: Open doors at the House of Experiments**

At the Hiša eksperimentov “open doors” day, join the Science Tea (a Cafe Scientifique, only with tea and biscuits) to discuss with local authorities, government and ecological societies about the issues that emerged in VOICES focus groups. You can also try out a range of workshops, including a special science show “Doubtology”, lectures, and different types of presentation of the VOICES project. Visitors will be invited to discuss their concerns on the waste problem with a virtual puppet, and on videos which will be posted on YouTube. And to celebrate the VOICES public event, Hiša will launch a new “hands-on experiment” on the topic of recycling. A company dealing with waste upsizing (using waste as a raw material) will also hold a workshop during the day. A well-known Slovenian ecological society will also take part.

#### **Exhibition: Facts about Waste**

A grand outdoor exhibition on one of Ljubljana’s iconic central streets will engage passers-by. How does the waste problem manifest itself in Slovenia? And what can be done about it?

#### **Film screening: Plastik Fantastik**

[Plastik Fantastik](#) is a film by a Slovenian scavenger, looking at how we deal with waste in Slovenia. This thought-provoking film will change the way you look at the waste you throw away.

#### **Workshop: Recycling Tricycle**

On Trubarjeva Street, passers-by will also have the chance to stumble upon a mobile recycling workshop. People will be invited to try out creative reuse and recycling techniques right there on the street, and even take home their creations. A company dealing with waste upsizing (using waste as a raw material) will also hold a workshop on the street during the day. A well-known Slovenian ecological society will also hold a workshop.

#### **Competition/debate: Urban waste and innovation**

No future problem can be solved unless the youngest generations are on board. Gimnazija Ledina secondary school will host a competition for primary schools on the topic of “Urban waste and innovation” and host a grand debate for secondary school students on the same topic. The debate will be open for the public and filmed.

## **VOICES Public Event France**

### **22-23 November 2013 – Grenoble, France**

#### **CCSTI Grenoble – La Casemate**

CCSTI Grenoble will organize a VOICES public event as part of the European Week for Waste Reduction. The VOICES consultation showed French citizens are particularly concerned about product lifespan. To look more closely at this issue, a week of repair and reuse activities will be held in different local associations: concrete workshops or demonstrations about how to repair, reuse collect and sell waste objects. Open door events and workshops will give concrete examples of how Grenoble can deal with its urban waste, innovating in order to make waste a resource.

### **Highlights:**

#### **Conference: Café Scientifique**

The CCSTI hosts a participative cafe to discuss the key outcome of the French VOICES consultation: product lifespan and obsolescence. How can we make sure the things we buy are built to last? Discover what the VOICES focus group came up with, and how their results compare to those of the EU. Local organisations, government and VOICES focus group participants will come together with the general public to go into depth on this tricky issue of obsolescence.

#### **Workshop: Fab Lab Grenoble**

How can we repair, reuse objects and waste materials to create something new? Discover the Fab Lab maker space at CCSTI Grenoble to find out more. This workshop will use concrete example of objects constructed in the Fab Lab as a starting point, so you can see 3D printers in action creating spare parts to repair broken objects. This participative workshop will collect participants' suggestions about using a Fab Lab for waste reduction. Come back to the Fab Lab with a concrete project and make it in the lab.



## **VOICES Public Event Portugal**

### **23 November 2013 – Lisbon, Portugal**

#### **Pavilion of Knowledge - Ciencia Viva**

VOICES outcomes will be disseminated in Lisbon as a key part of Portugal's National Science and Technology Week, directly after the Ecsite Directors' Forum which brings together science centre and museum directors from across Europe. The public event combines three distinct elements: an exhibition, a Maker Faire and a conference.

### **Highlights:**

#### **Conference: Engaging Citizens, Zero Waste, R&I: the VOICES project**

Join an interactive conversation in the Ciencia Viva Auditorium, organised in three thematic panels with the participation of a range of stakeholders. "Engaging European Citizens in Science – the Voices project" will bring together focus group participants, citizens, local authorities, municipal waste processing services and companies. "Zero Waste Society – a vision for Europe" unites policymakers, European representatives, NGOs, artists, philosophers and thinkers. Lastly, "Urban Waste Research and Innovation – the Portuguese experience" invites engineers, researchers and entrepreneurs to give their take on the VOICES outcomes.

#### **Exhibition: The VOICES Exhibition**

What do the Portuguese really think about urban waste? Using 250m<sup>2</sup> of the Pavilion of Knowledge's main hall, come and discover VOICES goals, processes and results, together with a view of the outcomes of the Portuguese focus groups. Stand-up panels, large photos and multimedia LCDs provide the visitors with an insight into specific Portuguese findings. The VOICES focus group participants will be present to share their experience as part of the consultation process.

#### **Workshops: Tec Garage Maker Faire**

The Tec Garage Maker Faire occupies the 500m<sup>2</sup> of the Pavilion of Knowledge garage, hosting a hands-on do-it-yourself demonstration. Come and try out creative ways to reuse technological urban waste. This event is a partnership with the University of Lisbon (Instituto Superior Técnico), Instituto Superior de Robótica and the European Recycling Platform. Make new objects out of the available gadgetry or join ongoing demonstrations by science and technology practitioners.

#### **Workshops: Kids Maker Faire**

The Kids Maker Faire will occupy the Pavilion's main hall. Eight classes of 8-10 year-olds from the Ciencia Viva School, together with their teachers and families, will participate in a showcase of innovation and experimentation. The public can join the making process too, learning from and working alongside the kid makers. The Pavilion of Knowledge's TINKER exhibition provides the perfect place to prepare their maker products, with the help of the TINKER explainers.