



"FOOD PRINT":

The environmental cost of food
EXPO 2015, Milan, July 11TH 2015
Italian Pavilion.

Granarolo's activities for sustainability

M. Di Stefano

Quality, Innovation, Safety, Environment

Granarolo Group



THE GROUP IN BRIEF

Established in 1957, the Granarolo Group today has:

- **2074** employees at the end of 2014
- **12** production facilities in Italy, 2 in France, 1 in Chile;
- **1037** million euros in net sales (2013);
- **850** thousands tons of milk processed.

A major dairy group in Italy with a recent expansion in the global market, recognised as:

- 1° contributor to the growth of the dairy markets;
- 1° player in fresh milk market;
- 2° player and leading brand in UHT milk market;
- 3° player in yogurt market;
- 3° player in fresh cheese market.
- 2° player in hard cheese market in France

Distinctive features

- Valorization of Italian milk
- High quality of raw materials
- Control over the entire production chain
- Environment protection
- Soft technologies
- Sustainability
- Accountability



GRANAROLO PRODUCTION SITES



GRANAROLO VISION

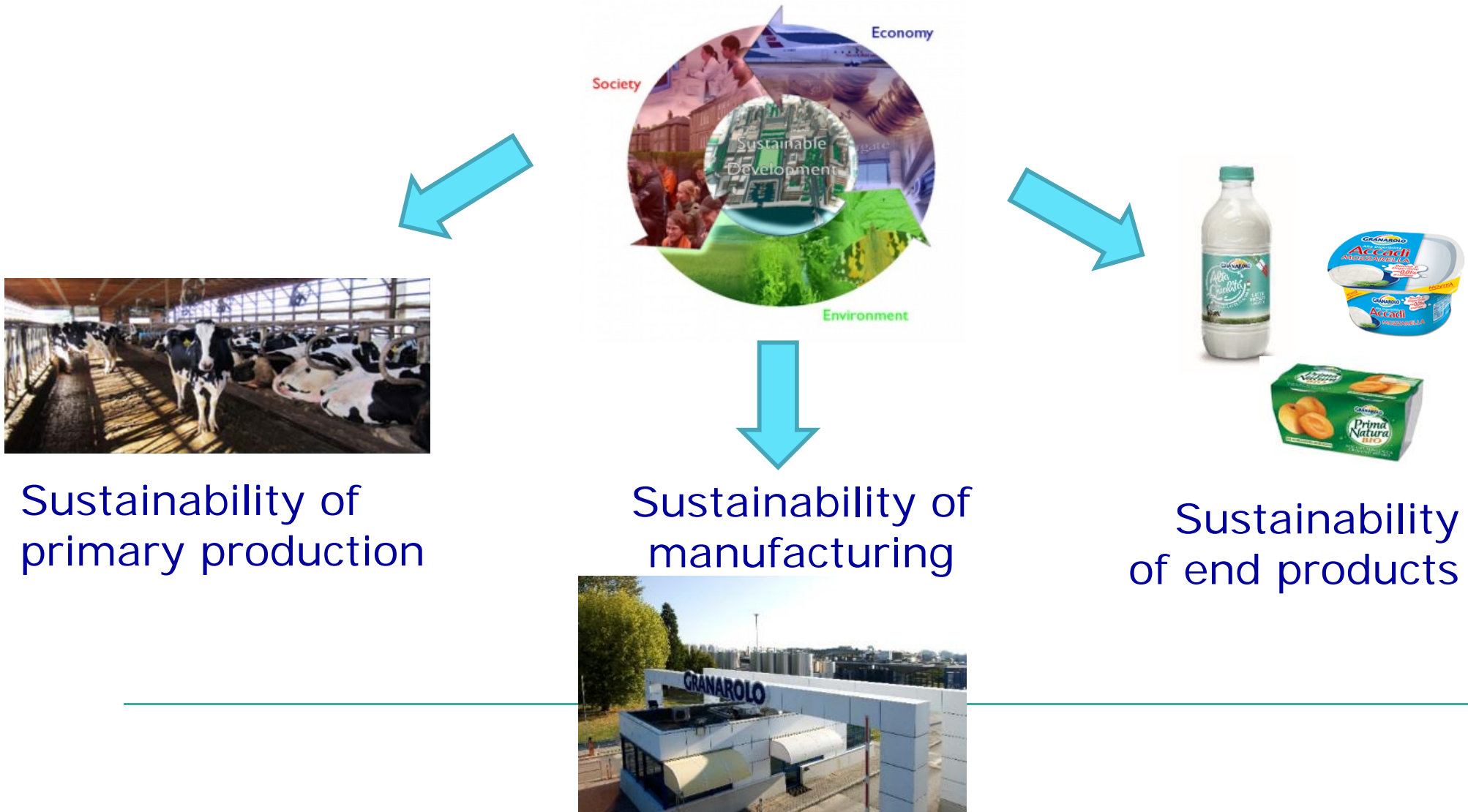
***Create well being and enjoyment
with the best milk***

***Successfully anticipate global
challenges for a sustainable
company and economy***



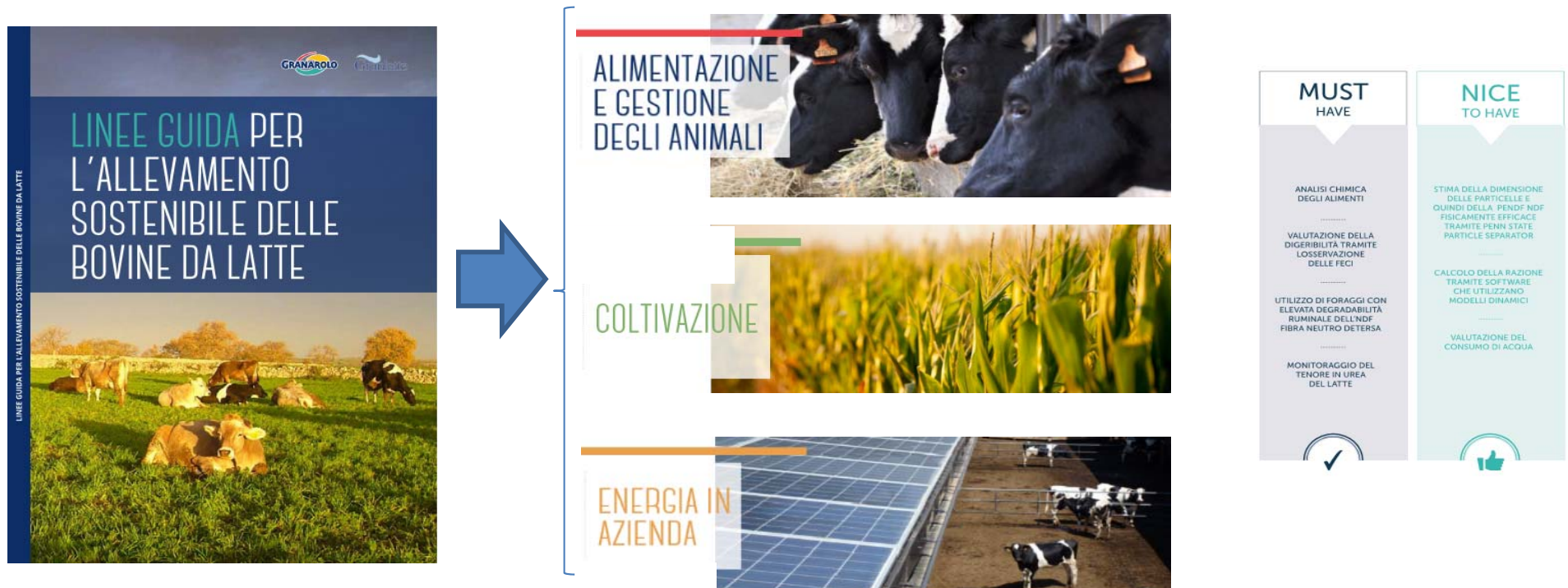
Granarolo and the Sustainability

Granarolo cares about sustainability with activities that involve primary production, manufacturing and end products.



Sustainability of primary production

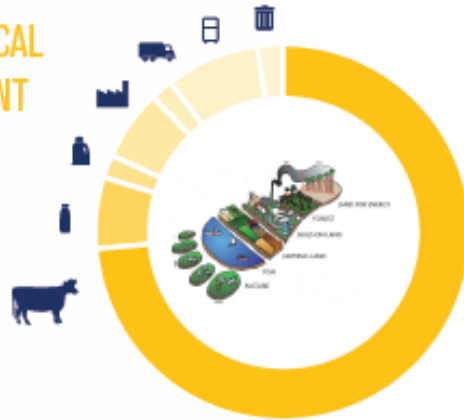
Development of guidelines for the sustainability of dairy farming



Granarolo is involved in the European LIFE+ project named **Climate ChangE-R**. The aim of the project is to demonstrate how to reduce greenhouse gases produced in the by Emilia-Romagna's agricultural system by using the most advanced technologies that have come out of local and international research.

Environmental Impact Assesstments of the product

ECOLOGICAL FOOTPRINT



1 litro di latte
Alta Qualità

Area needed to generate the resources and to absorb the emissions related to the entire life cycle of the product

CARBON FOOTPRINT



1 litro di latte
Alta Qualità

Total emissions of greenhouse gases generated throughout the life cycle of the product

WATER FOOTPRINT



1 litro di latte
Alta Qualità

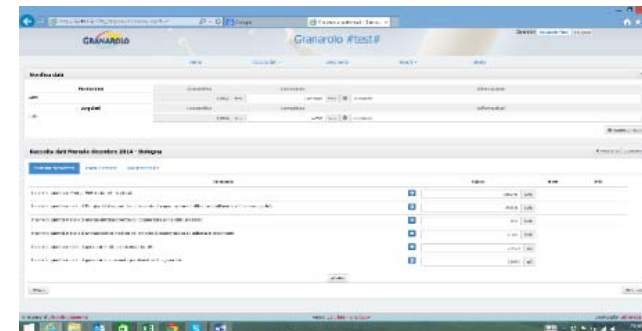
Amount of water used both directly and indirectly

Sustainability of manufacturing: the projects

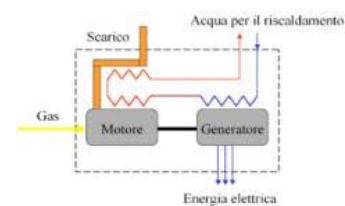
Activities for the sustainability of manufacturing



EMAS declarations



Environmental KPIs– CSR report



Stabilimento	Taglia	Stato
Bologna	2,4 MW	In marcia (2010), in corso potenziamento a 3,6 MW (2015)
Castrovillari	0,8 MW	In marcia (dal 2009)
Gioia del Colle	1,0 MW	In marcia (dal 2013)
Pasturago	3,3 MW	In marcia (dal 2013)
Soliera	2,0 MW	In costruzione
Usmate Velate	3,9 MW	In marcia (dal 2009)
TOTALE	13,4 MW	

Technological solutions (CHPs)

Granarolo since 2000...

- ✓ In 2000 development of the first environmental report
- ✓ From 2003 to 2006 development of sustainability reports with environmental and CSR topics
- ✓ Since 2006 development of annual reports that include a summary of the financial statement and CSR topics

Next steps

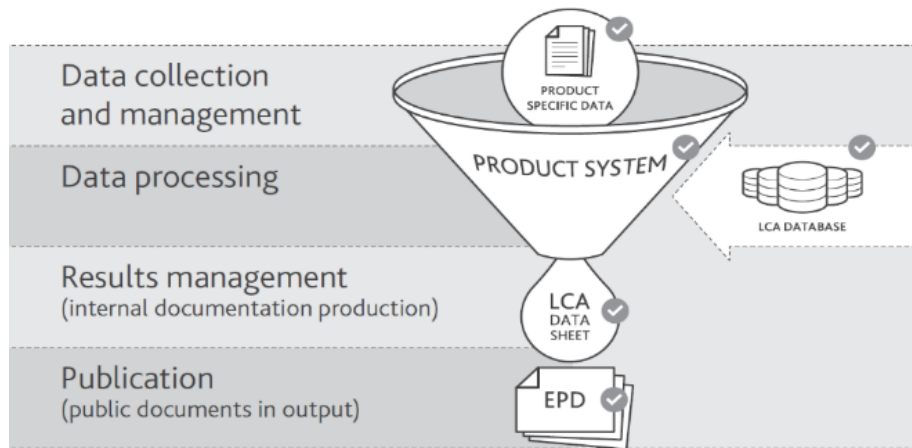
- ✓ The CSR report (according to GRI4 guidelines) for the year 2014 is being drafted.

ANNUAL REPORT 2013

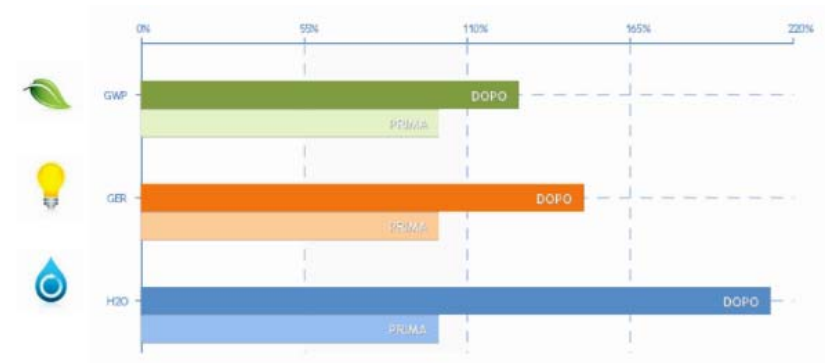


End product sustainability

Life Cycle assessment (LCA) of end products and development of EPDs



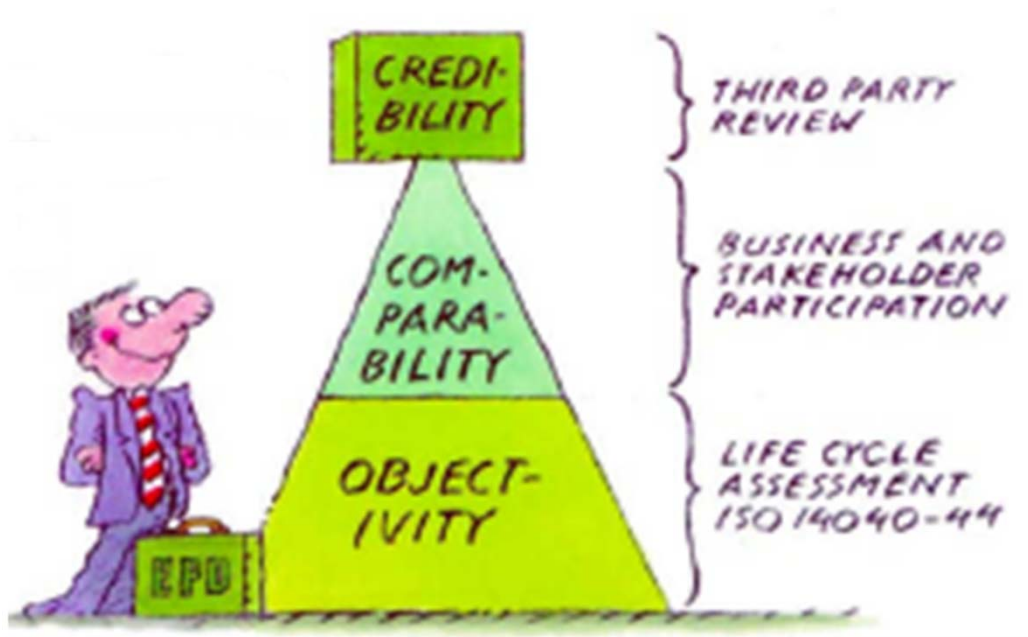
Eco-design of packaging



Reduction of packaging weight

Environmental Product Declaration

An EPD[®] (Environmental Product Declaration) is an **independently verified** and registered document that communicates **transparent and comparable information** about the life-cycle environmental impact of products.



The EPD[®] is a type III environmental declaration (defined in ISO 14025 as quantified environmental data for a product with pre-set categories of parameters based on the ISO 14040 series of standards)

Life Cycle Assessment (LCA) since 1999...

Life Cycle Assessment (regulated by ISO 14040:2006 and ISO 14044:2006) is a technique to assess environmental impacts associated with all the stages of a product's life from cradle to grave.

The goal of LCA is to calculate the **full range of environmental effects** assignable to products and services by quantifying all inputs and outputs of material flows and assessing how these material flows impact the environment

This information can be used to improve processes and provide a sound basis for **informed decisions**.



Our background

Granarolo in 2005 obtained the certification for its first 3 **Environmental Product Declarations (EPDs)** with relative **Climate Declarations** (declarations of Global Warming Potential)

Pasturago (MI)

Bologna

Anzio (RM)

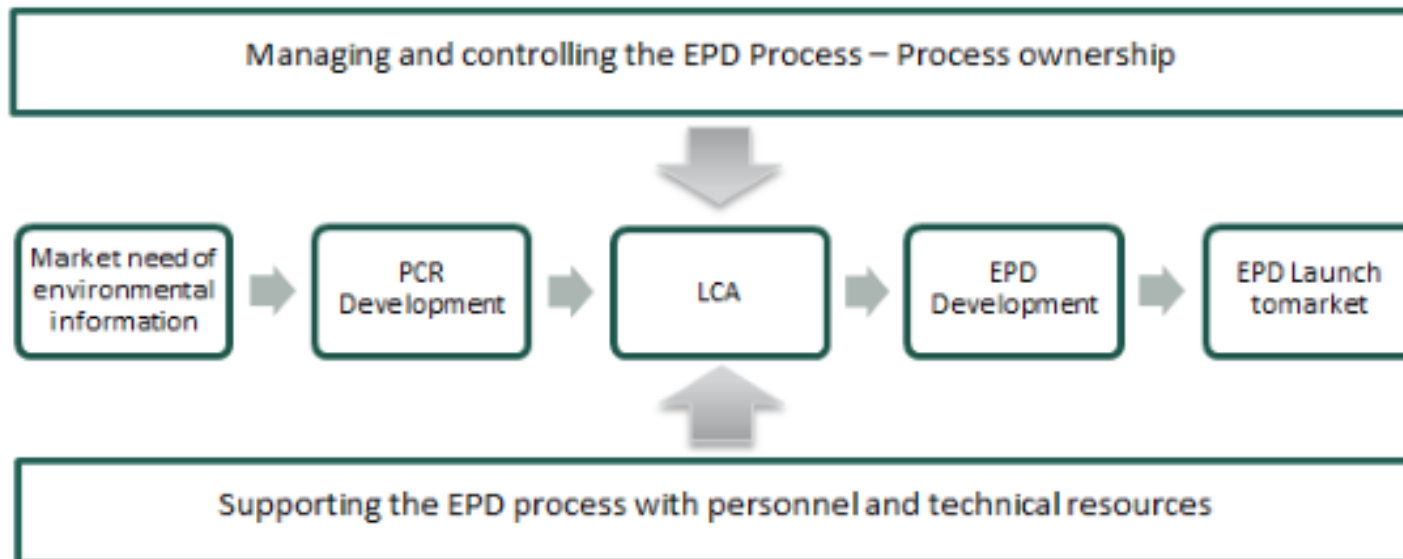
Gioia del Colle (BA)

Assolac Castrovillari (CS)



The Granarolo EPD Process

Granarolo has developed an EPD process to **internally handle the management of EPDs**. An organization having an EPD process certification **assessed and certified by a third party** is, on a regular basis, allowed to update existing EPDs and create and issue new EPDs for registration.



Environmental Product Declarations (EPDs)



ENVIRONMENTAL PRODUCT
DECLARATION OF
**HIGH-QUALITY
PASTEURIZED MILK**
PACKAGED IN PET BOTTLES*



* 0,5 litres, 1 litre
and 1,5 litres bottles

CPC code

2211 - Processed
liquid milk
(unstats.un.org)

Revision no.

2 del 14/10/2013

Certification no.

S-P 00118

Valid until

14/10/2016

Reference year

2012

Geographical scope

Italy



Granarolo at EXPO 2015



Exhibition of products in the Future Food District with the Carbon Footprint of the main products indicated.



GRANAROLO EXPO MILANO 2015



ITALIA
EXPO MILANO 2015

