

A World Leader in Anaerobic Digestion Treatment Plants

**ANAEROBIC DIGESTION WORKSHOP
OAKLAND**

November 17 th 2009



\$ 28.0 billion
Revenue



130,000 employees

Construction

Concessions

Environment
&
Logistics

Industrial
services

Energy

#5 Global
Contractor
Worldwide

#1 Transportation
Developer
Worldwide

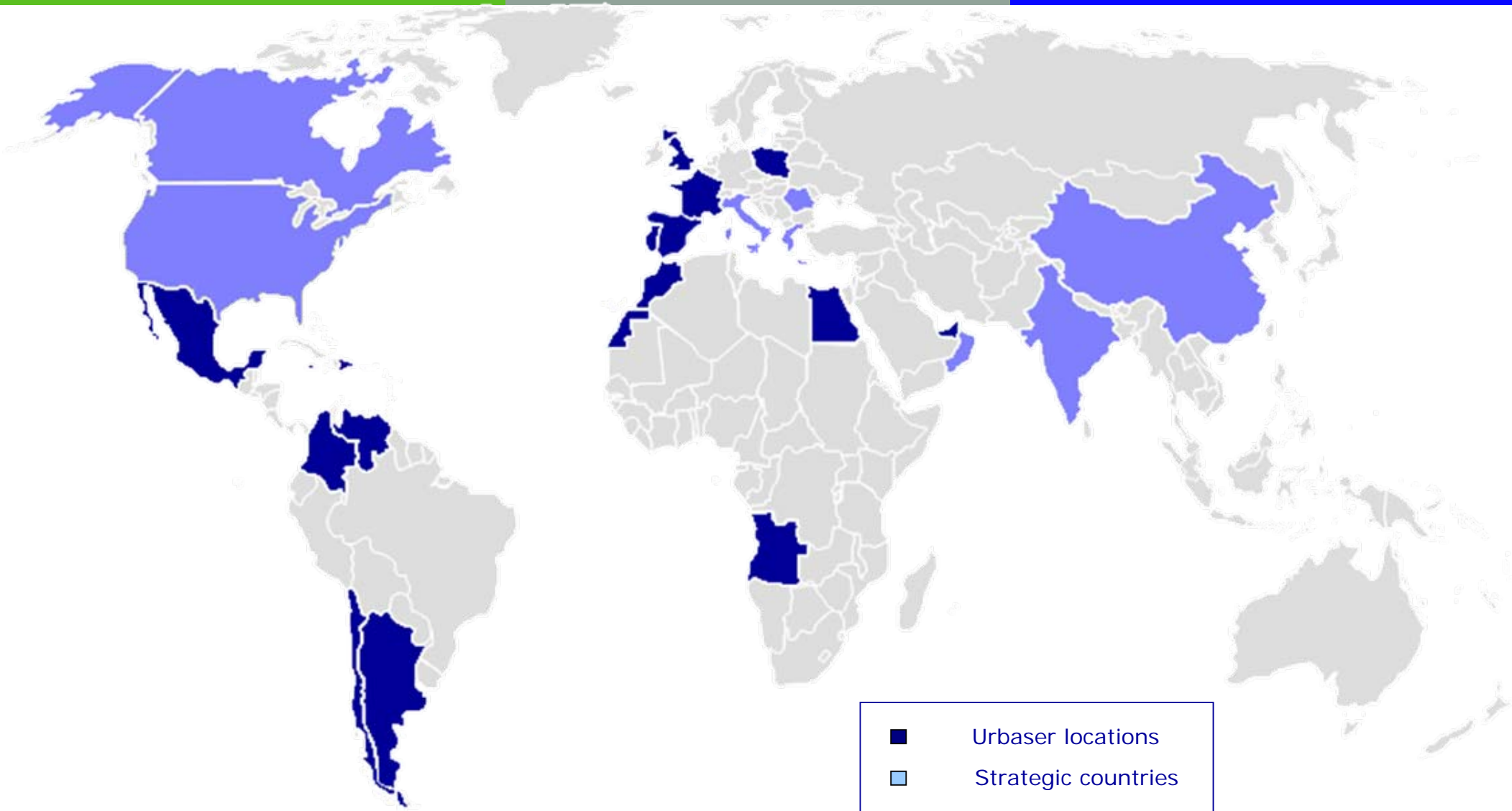


#1 Industrial
Services
Latin America

#3 Utility
Company
Spain



URBASER International Presence



URBASER provides services to 40 million inhabitants in 14 different countries

Waste treatment experience

Technologies Implemented	No. Implemented	Installed Capacity (tons/y)	Largest Facility (tons/y)
Separation and Sorting	36	6,105,000	540,000
WtE	8	2,102,000	432,000
Anaerobic Digestion	18	1,250,000	120,000
Composting	43	2,165,000	220,000
Transfer Stations	49	6,390,000	1,825,000
MRRF (*)	29	280,000	40,000
MSW Landfill	34	7,245,000	1,825,000
Landfill degasification	8	120 Hm3	51,82



20 years experience

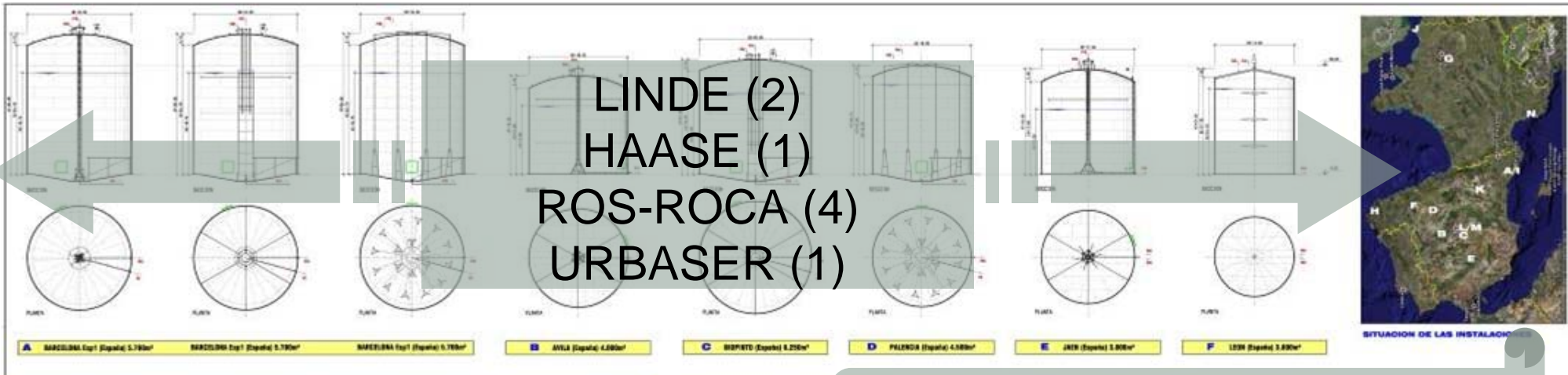


(*) Blue bin waste (only plastic and metals)

- 154 MW produced from renewable energy sources
- More than 2.1 million tons per year of CO₂ avoided
- Inert waste treatment and disposal 15.2 Million tons per year
- Industrial waste collection and treatment 150,000 tons per year
- Used mineral oils treatment and regeneration 170,000 tons/year

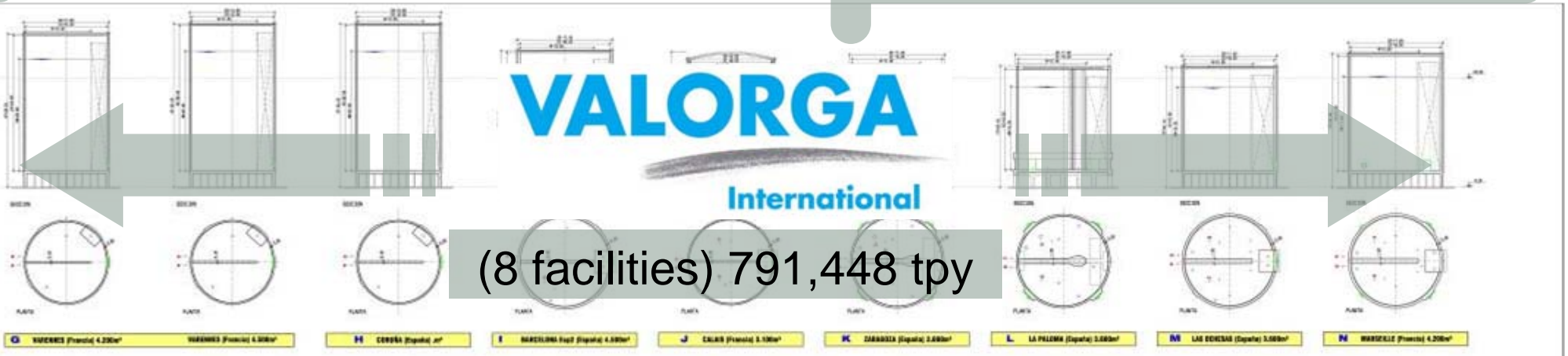


URBASER: World Leader in Anaerobic Digestion Operations



16 facilities
 42 digesters built
 1,293,448 tpy installed capacity

5 AD Technologies:
 • 4 Wet systems
 • 1 Dry System



1999

2001

2001

2002

2003

2004



Varenes-Jarcy (F)
120 000 t/y



Barcelona E1 (E)
140 000 t/y



Coruña (E)
120 000 t/y



Ávila (E)
36 500 t/y



Mallorca (E)
70 000 t/y



Barcelona E2 (E)
120 000 t/y

2004



Leon (E)
55 000 t/y

2008



La Paloma (E)
108 175 t/y



Zaragoza (E)
95 500 t/y

2009



Jaén (E)
20 000 t/y

2010



Marseille (F)
55 000 t/y

2012



Romainville (F)
145 773 t/y

After 9 years of operating 14 AD treatment facilities: What have we learned?

2007



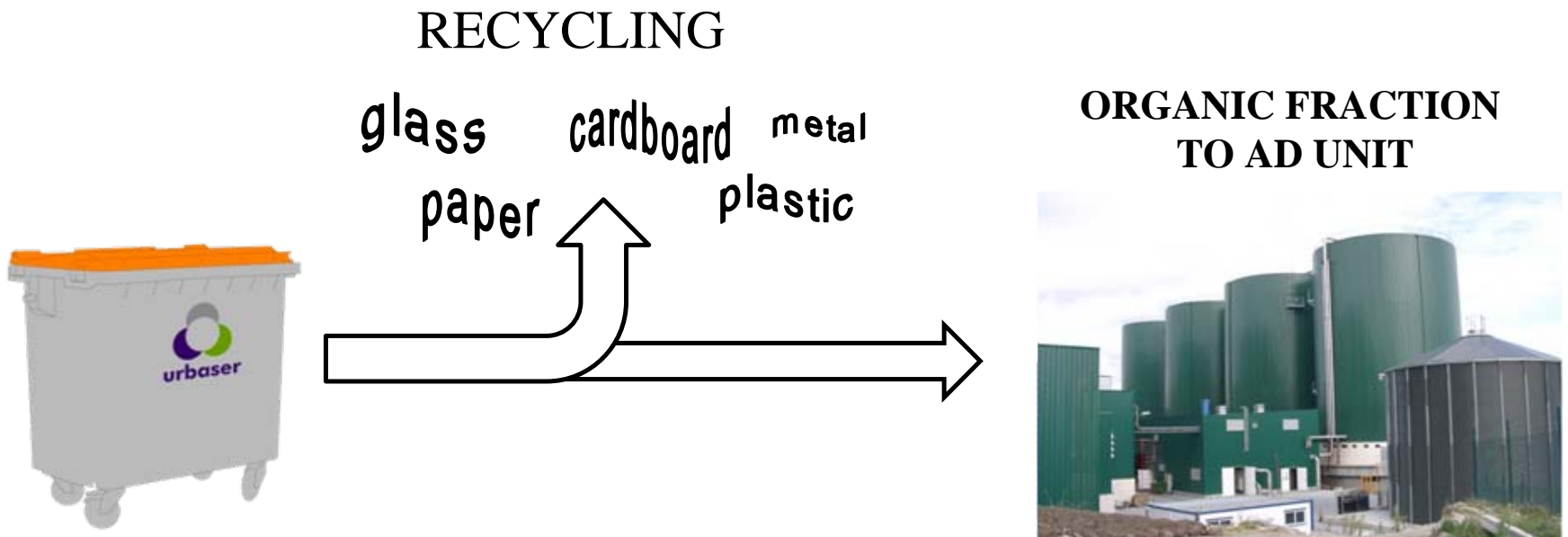
Calais (F)
27 000 t/y

MSW

MSW + Biowaste

Biowaste

The Important Step: The sorting line



URBASER PROVIDES:

- **EXPERTISE IN PRETREATMENT DESIGN**
- **EXPERIENCE IN DESIGN AND OPERATION OF AD UNITS**

Thank you...

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