

WHERE DOES IT COME FROM?
WHERE DOES IT GO?



MUNICIPAL WASTE HOUSEHOLD WASTE, COMMERCIAL WASTE, AND DEMOLITION WASTE

HAZARDOUS WASTE INDUSTRIAL WASTE

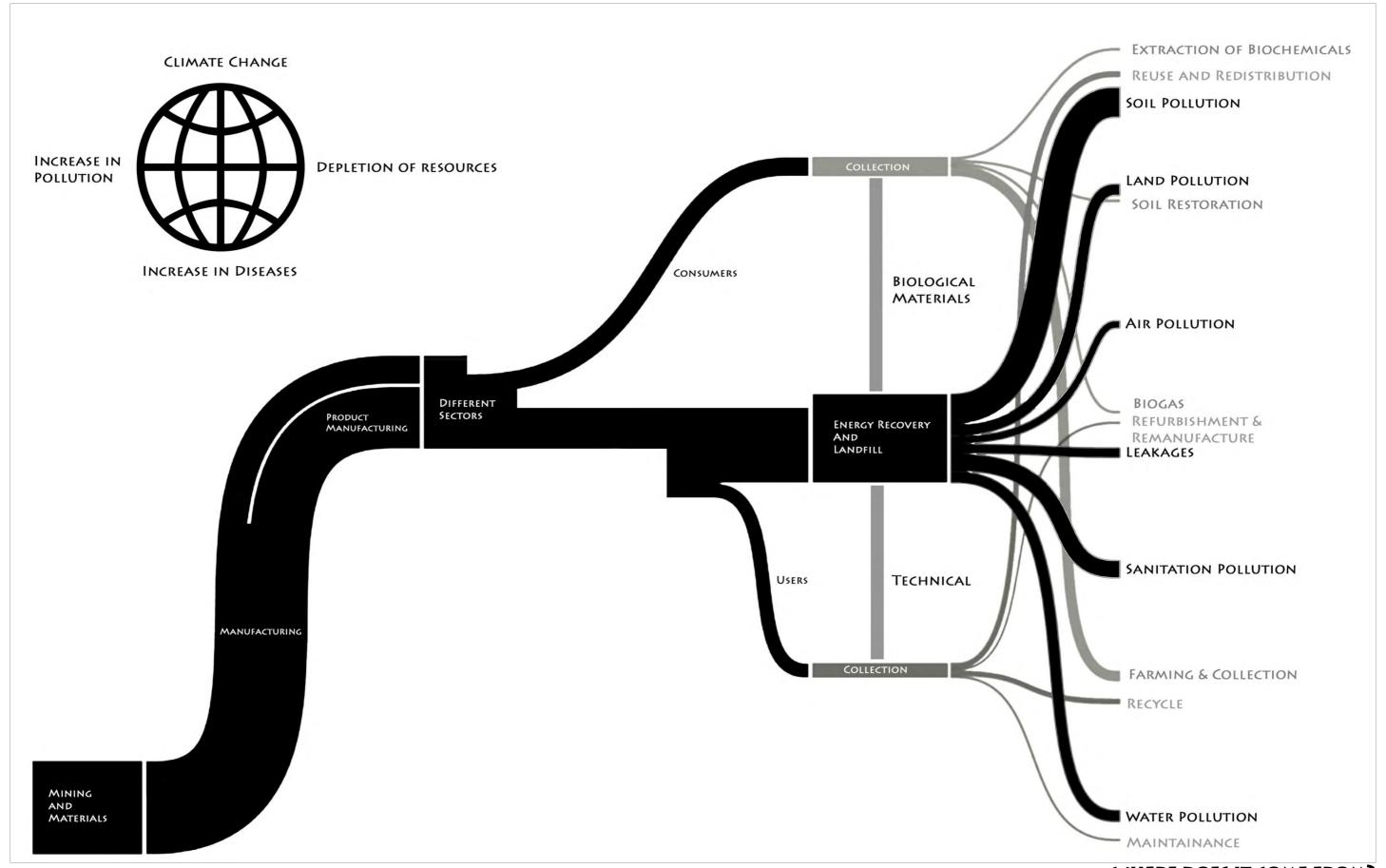
BIOMEDICAL WASTE CLINICAL WASTE, CHEMICAL WASTE

SPECIAL WASTE RADIOACTIVE WASTE, EXPLOSIVE WASTE, AND ELECTRONIC WASTE

TYPE OF THE WASTE



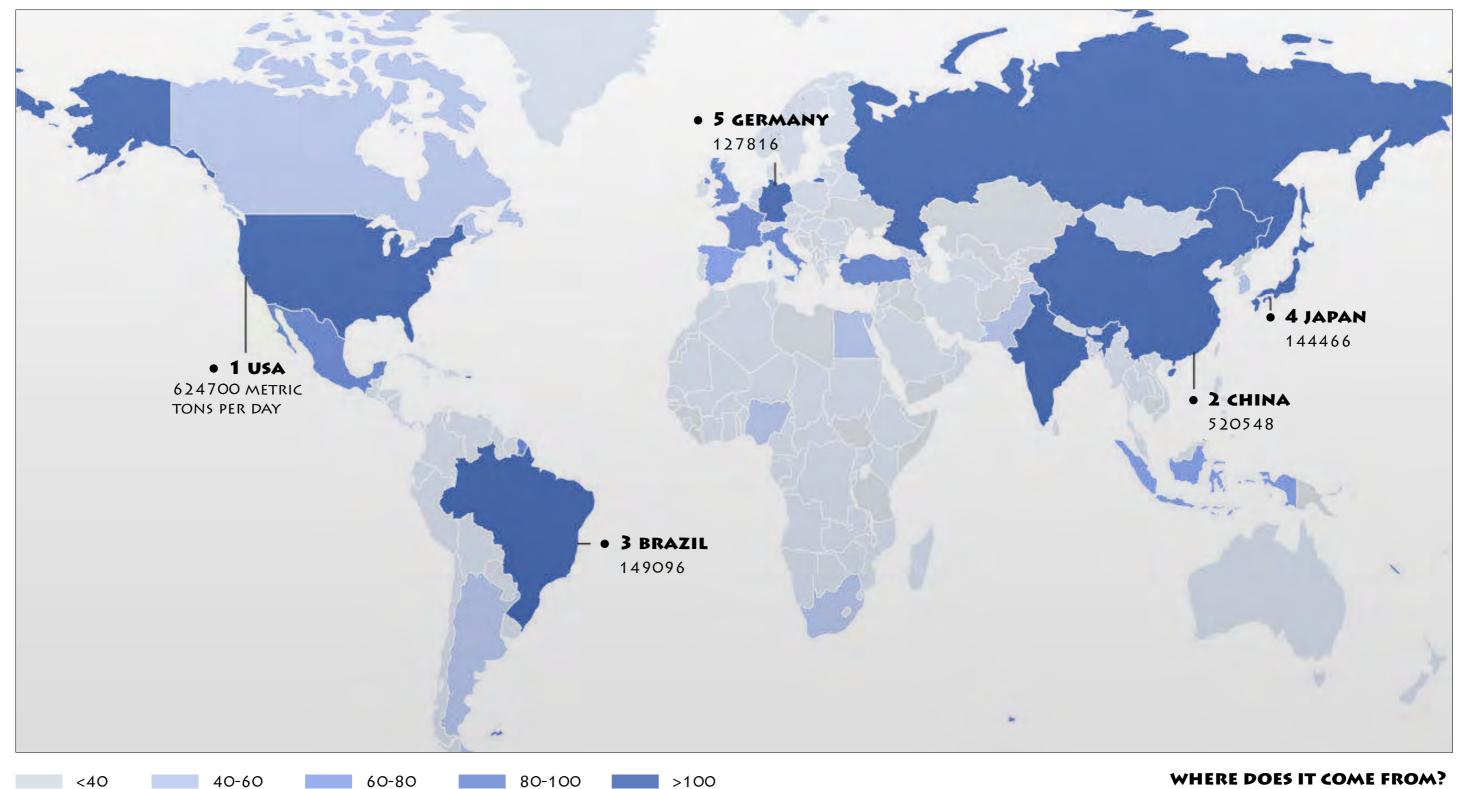












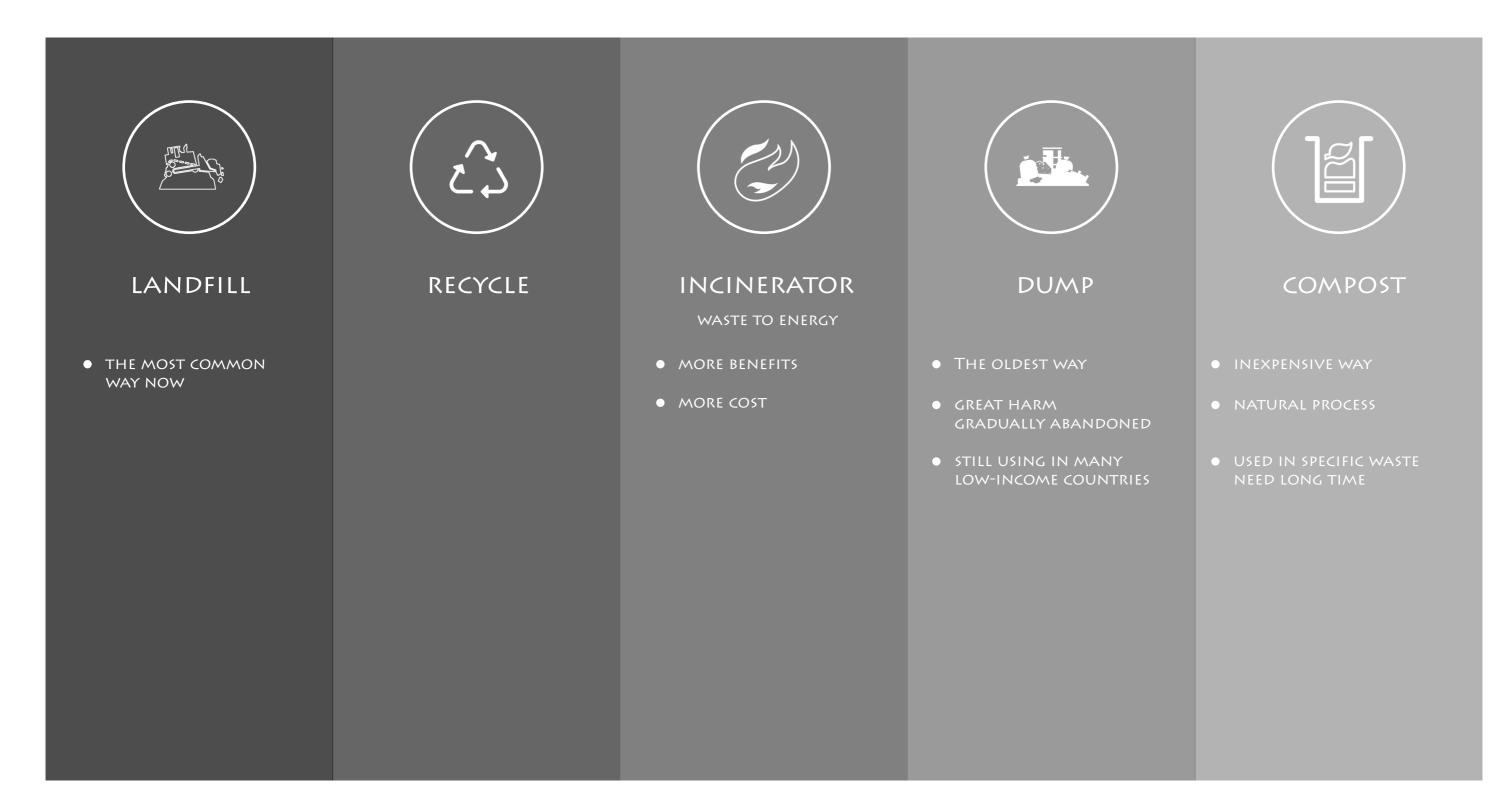
METRIC TONS OF SOLID WASTE GENERATED EACH DAY (IN THOUSANDS) SOURCE: WORLD BANK (2011)





BARCELONA

Tutors: Tomas Diez & Mathilde Marengo Students: Pratyaksh Sharma & Peng Wang

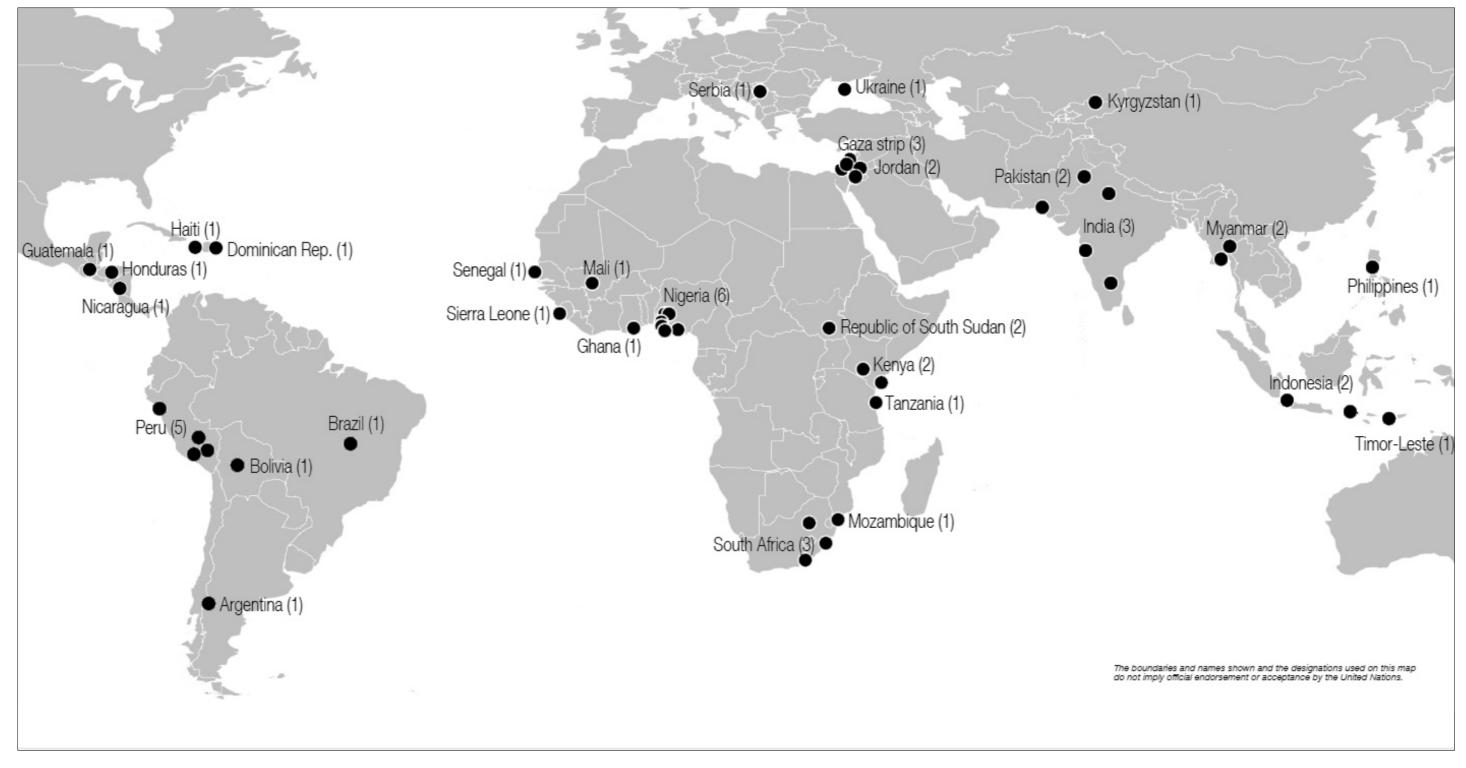


WHERE IS IT GOING?

GLOBAL MUNICIPAL WASTE DISPOSAL METHODOLOGY SOURCE: WORLD BANK (2012)







GLOBAL DUMPING MAP

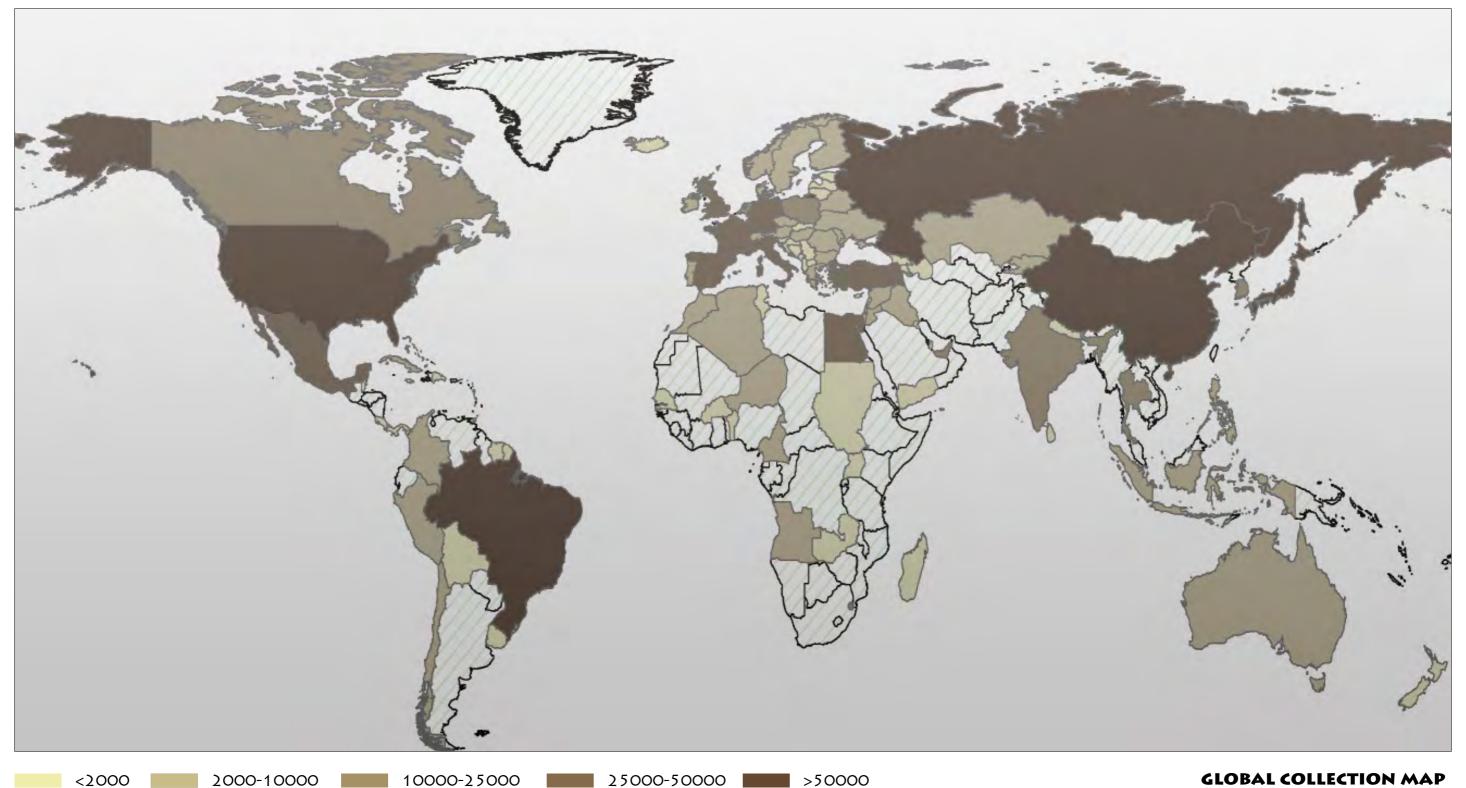
THE WORLD'S 50 BIGGEST DUMPSITES SOURCE: WASTE ATLAS (2014)





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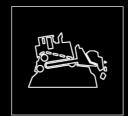
GLOBAL COLLECTION MAP MUCINIPAL WASTE COLLECTED (IN 1000 TONNES) SOURCE: UNSD (2011)





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SPAIN STILL MAINTAINS VERY HIGH RATES OF LANDFILLING, SURPASSING 50% OF MSW GENERATED IN 2010.



PACKING: REDUCE WASTE TONNAGE BY 4% BY 2012 COMPARED WITH 2006



INCREASE THE RESUE OF GLASS PACKAGING FOR CERTAIN LIQUIDS, USED IN INDUSTRIAL AND COMMERCIAL PACKAGING FROM 2011: WATER BOTTLES 60%, SOFT DRINKS 80%, BEER 80% AND WINE 50%



SINGLE-USE SHOPPING BAGS: REDUCED BY 50% FROM 2010



IMPROVEMENT IN RECYCLING HAS BEEN SEEN IN LAST 10 YEARS MORE THAN 10% INCREASE FROM 21% IN 2001 TO 33% IN 2010

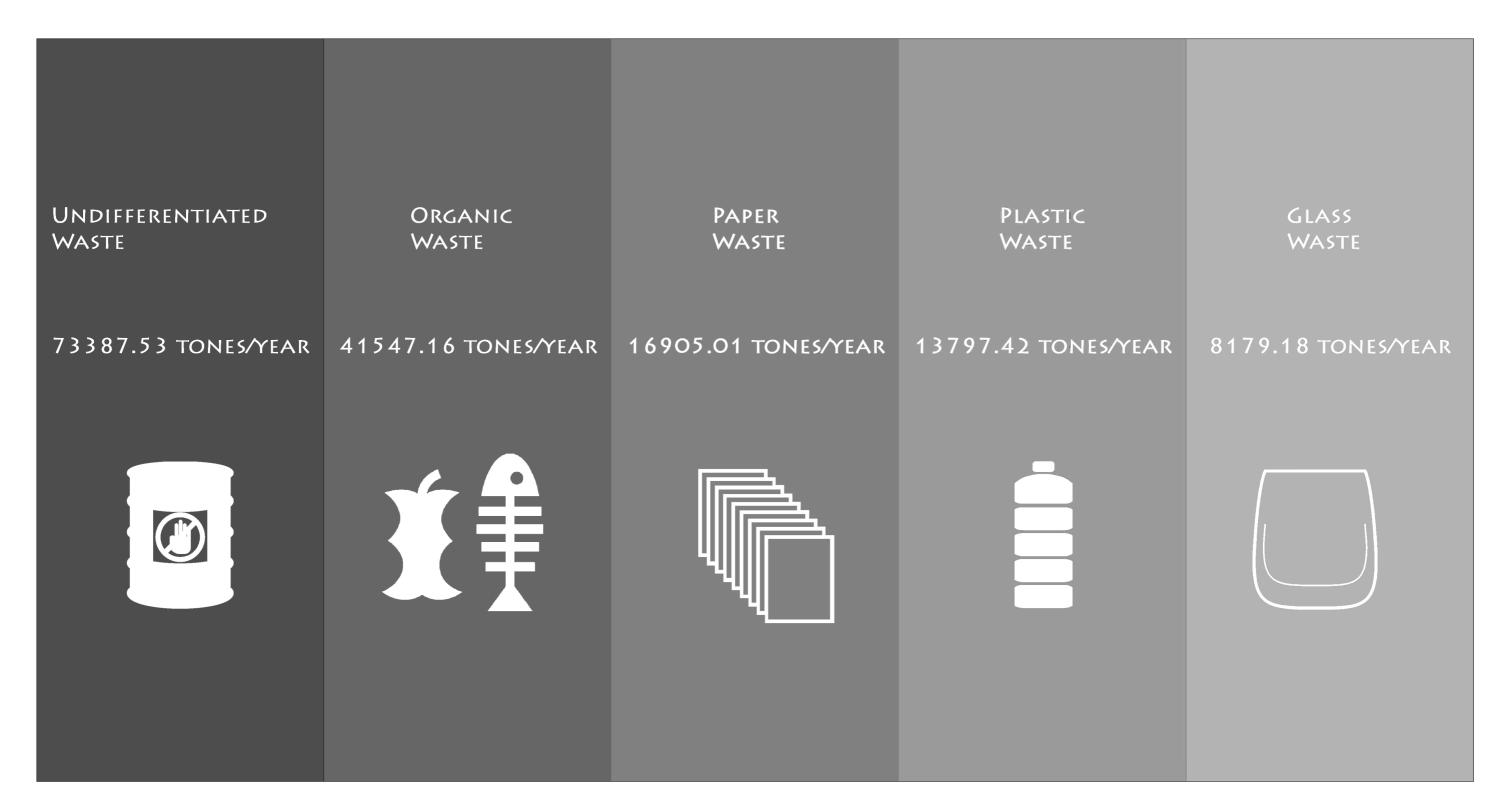
DESPITE THIS PROGRESS, AN EXTRAORDINARY EFFORT IS STILL REQUIRED IF SPAIN IS TO MEET THE 50% TARGET OF THE WASTE FRAMEWORK DIRECTIVE BY 2020

SPAIN





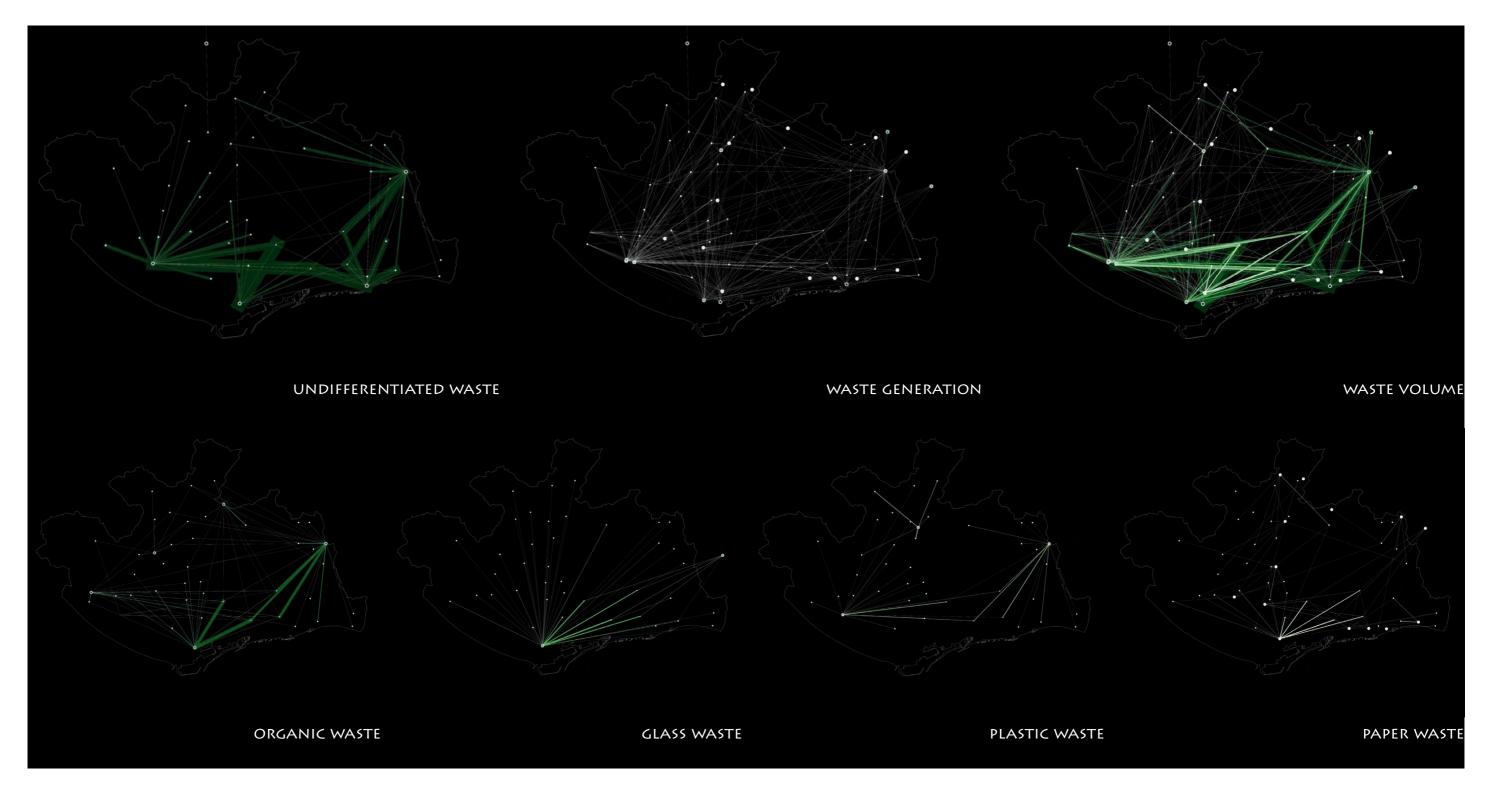
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BARCELONAWASTE PRODUCTION EACH YEAR



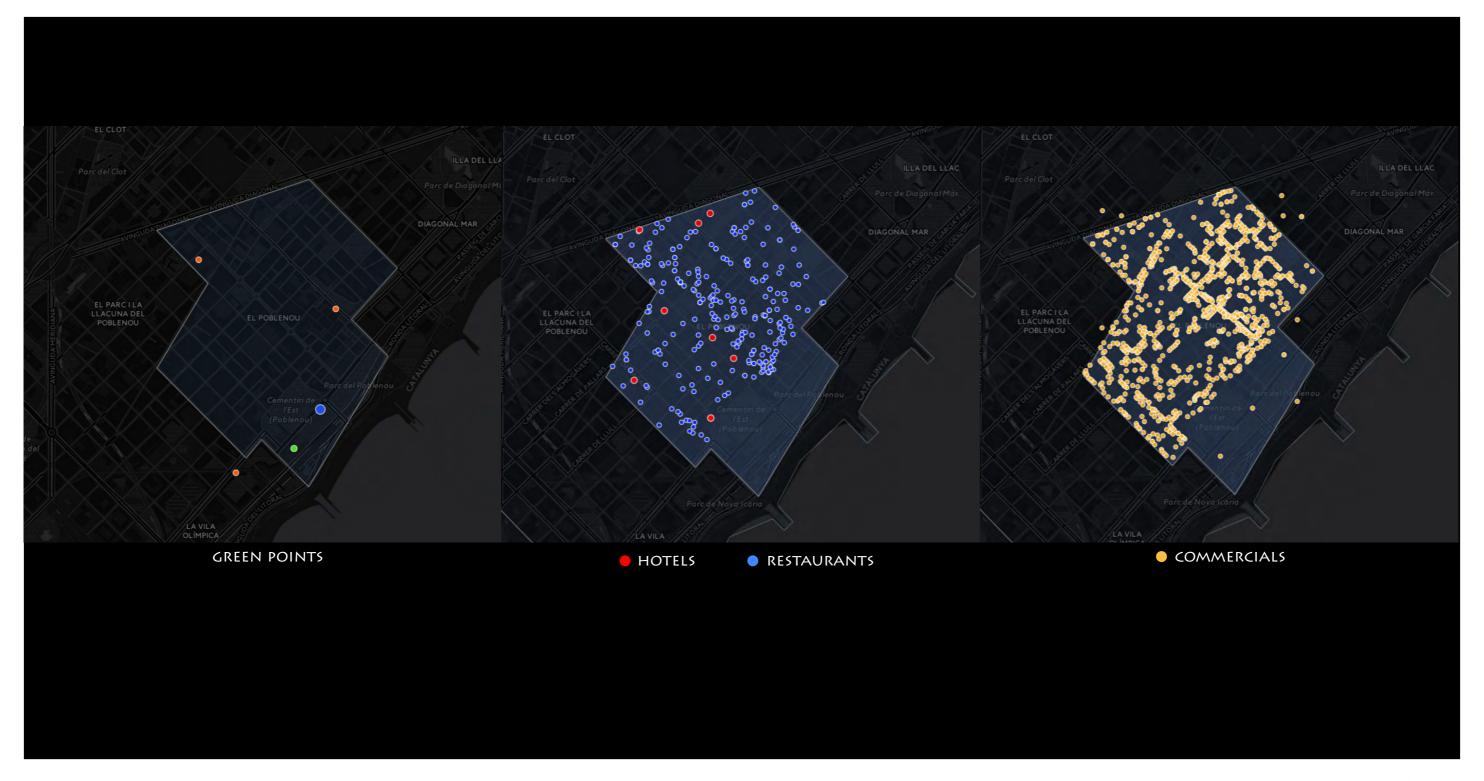




BARCELONA WASTE PRODUCTION





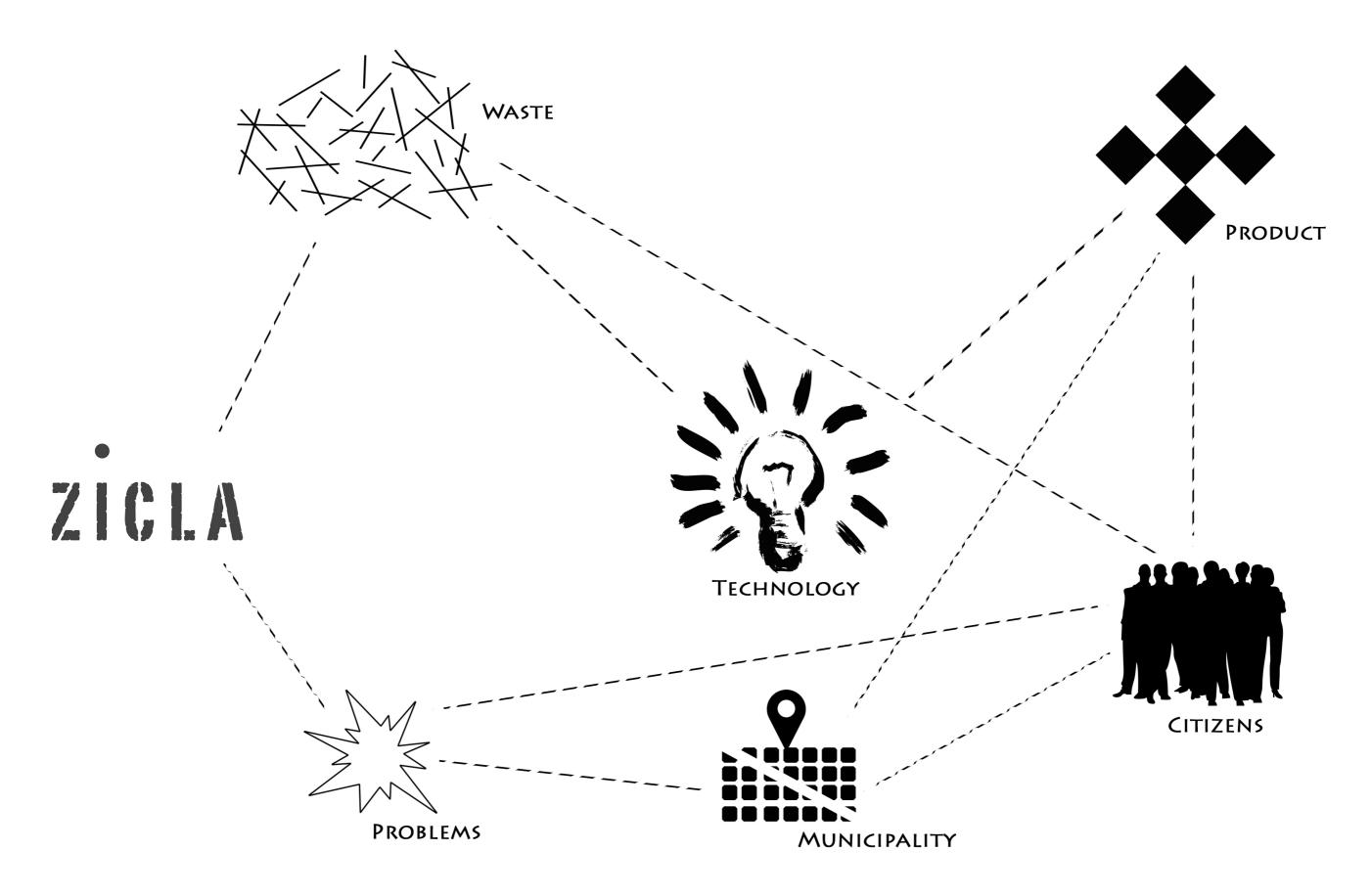


POBLENOU

COLLECTOR (GREEN POINTS) AND POTENTIAL WASTE GENERATOR





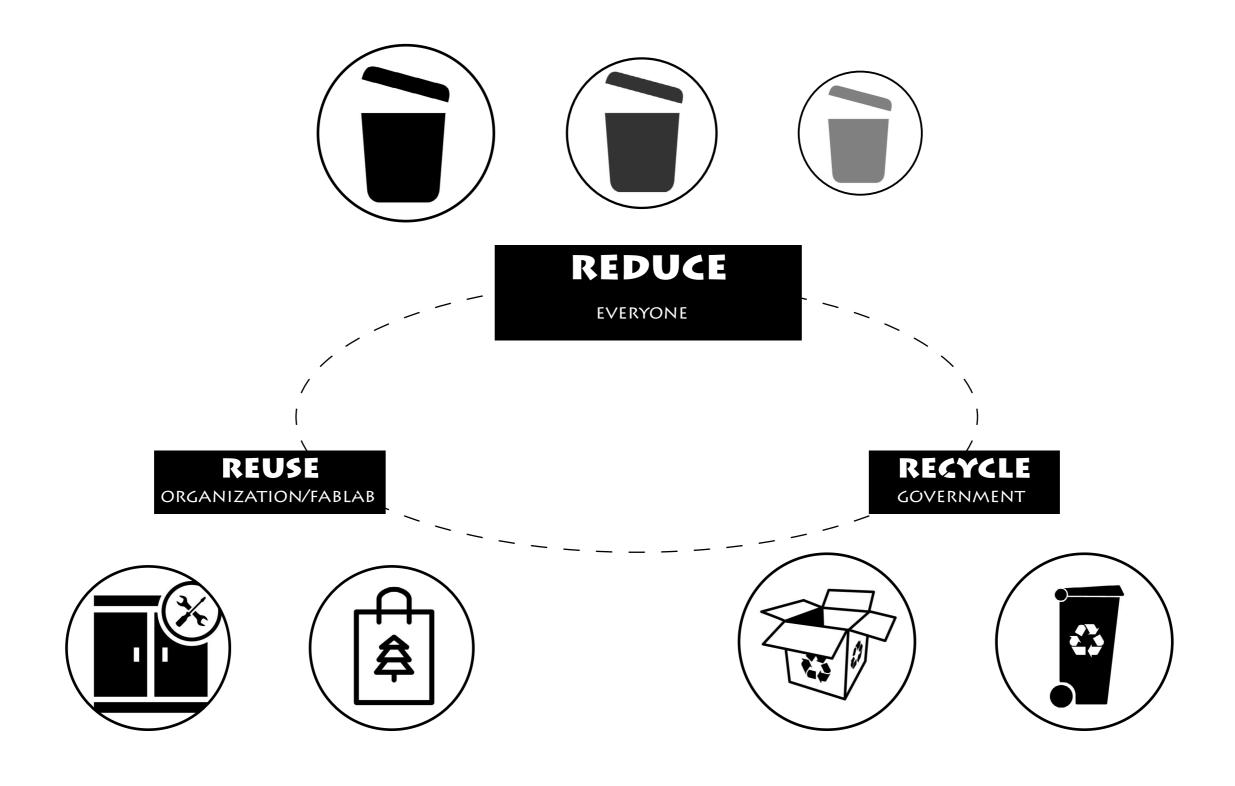


POBLENOU















12MINUTES

GLOBAL CONSUMPTION OF PLASTIC BAGS PER YEAR 🛮 AVERAGE TIME FOR A PERSON USING A PLASTIC BAG, SIMPLY THROWN OUT





1 OF 12 DEBRIES MOST OFTEN FOUND IN COSTAL CLEANUPS



10 MILLION TONS

PLASTIC END UP IN THE OCEANS - AND NOT WITHOUT CONSEQUENCE

Sources:

Worldwatch Institute: plastic bags



560 MILLION TONS

35%

CONSUMPTION OF PAPER PRODUCTS EVERY YEAR. STILL IN RISING

35% BY WEIGHT OF MUNICIPAL SOLID WASTE ARE PAPER

PAPER



MORE PAPER NEED MOREWATER

THE PAPER INDUSTRY USES MORE WATER TO PRODUCT A TON OF PRODUCT THAN ANY OTHER INDUSTRY.



17 BILLION CUBIC FEET

WOOD USED FOR PAPER AND PULP

LESS FORESTS, MORE GHS EMISSIONS

Source

Forest Ethics – www.forestethics.org/paper-the-facts Environmental Paper Network – www.environmentalpaper.org World Resources Institute – www.wri.org

Tage Institute for advanced architecture

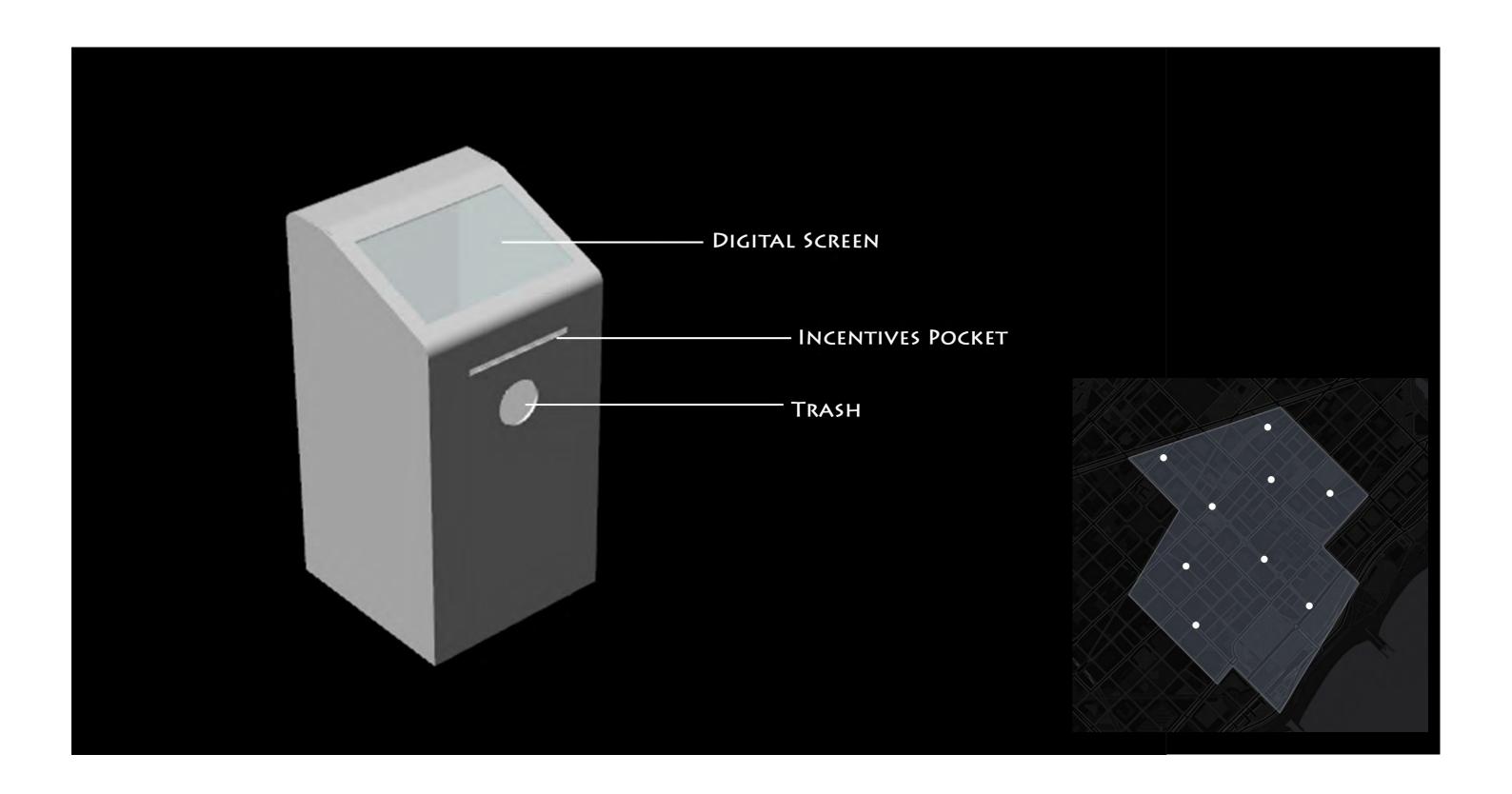


Master in City and Technology 2016/2017 Fablab Design Strategies **Tutors:** Tomas Diez & Mathilde Marengo **Students:** Pratyaksh Sharma & Peng Wang





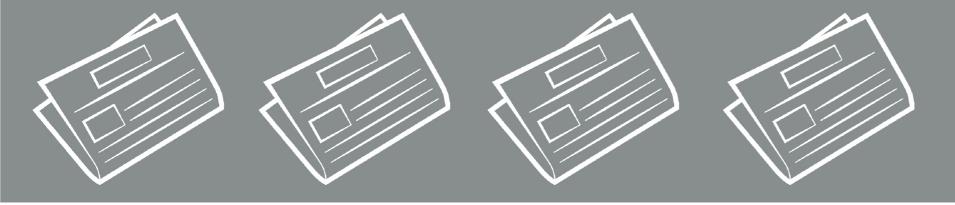


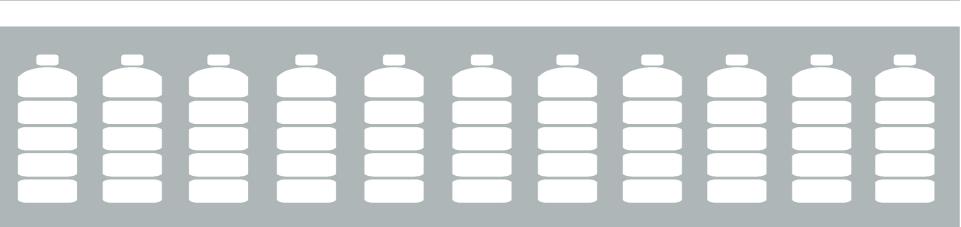


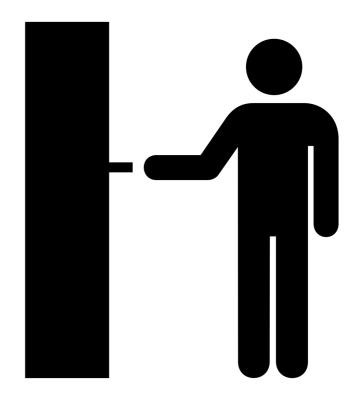








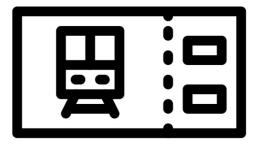




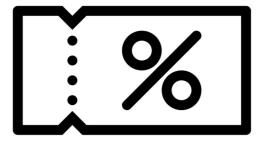
PLASTIC











COUPONS

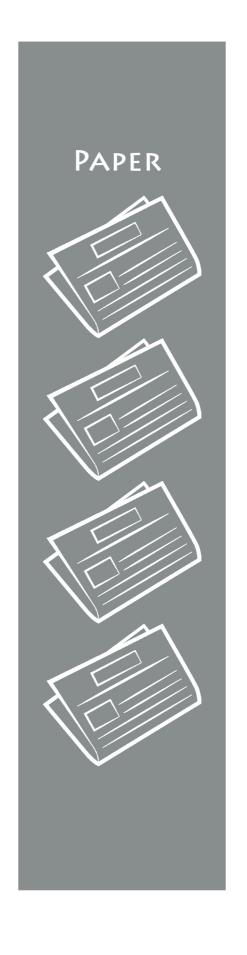


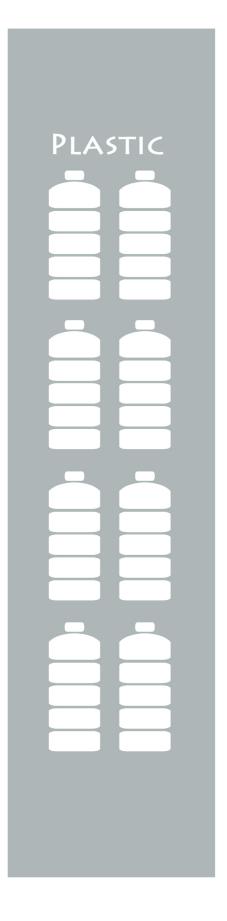
MONEY





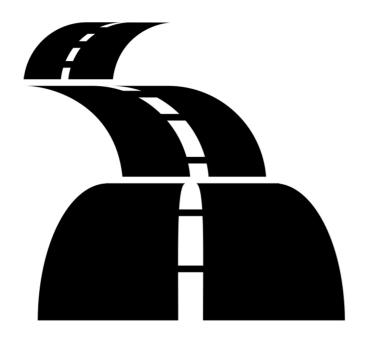




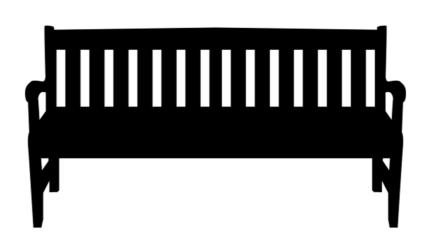




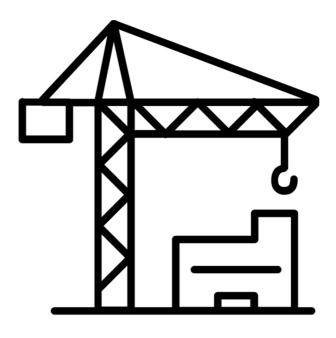






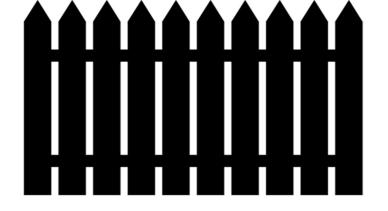


BENCHES



CONSTRUCTION MATERIALS





FENCING

MATERIALS (REUSE)





3 R'S

4R'S

• REDUCE

REUSE

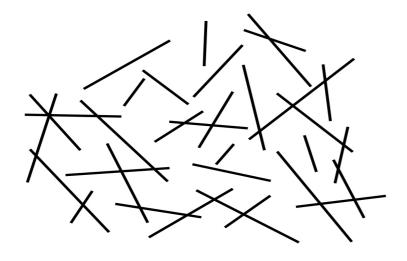


RESPONSIBILITY

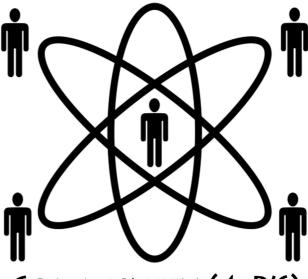
• RECYCLE









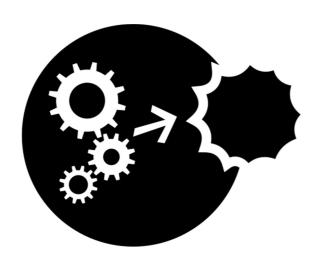


WASTE









PROCESS





GOVERNMENT





PARTNERS























