## INTEGRATED SCIENCE AND COLLABORATION BRINGS INNOVATION

Gilles Mur | 27-28 October 2014

West's M

CITY CON

@ POND





### **DuPont is a Science Company**

We work collaboratively to find sustainable, innovative, market-driven solutions to solve some of the world's biggest challenges, making lives better, safer, and healthier for people everywhere.



## Play video



INDUSTRIAL BIOSCIENCES







### **Industrial Biosciences Business**

Three biobased segments, serving a diverse set of customers

Bioactives	Enzymes Proteins Peptides PRODUCTS	Food, beverages, feed, detergents, personal care, textiles END USE MARKETS	POWERED BL. HONERED BL.	Microbiology Protein and metabolic engineering Enzyme design Fermentation
Biomaterials	Biochemicals Biomaterials	Carpet, apparel, automotive	Key Capabilities	Biochemistry Bioprocessing Polymer science
	PRODUCTS	END USE MARKETS	Applying the pow	er of biotechnology,
				5 577



## Applying bioscience to help solve industry challenges



- PREFERENZ<sup>™</sup> enzymes for cold water laundry cleaning



- PrimaGreen<sup>®</sup> high quality and eco-friendly textiles treatment



## **CONSUMER TRENDS DRIVE OUR INNOVATION**

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## CONSUMER TRENDS IN HOUSEHOLD CARE INDUSTRY

## New Value Equation

Convenience is King

## Inspiring Experiences



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## CONSUMER TRENDS IN HOUSEHOLD CARE







#### Enzymes

- » are efficient stain removers
- » are gentle on clothing
- » replace traditional chemical ingredients with biodegradable alternatives
- » perform at ambient water temperatures
- Deliver clean clothes and energy savings









#### The 30 for 30 laundry challenge



- As a community, we need to lower our energy usage to protect our planet.
- We want to change the laundry habits of people across Europe to become more sustainable, supporting the wider work of AISE.
- This is why we've developed the 30 for 30 laundry challenge.



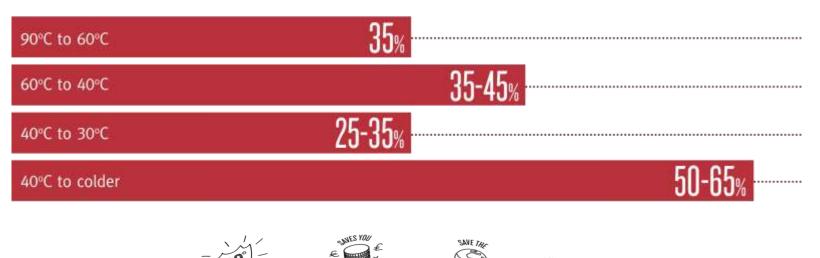
SAVES YOU



### A small change to help make a big difference

- If everybody simply switches to 30°C we'll save a huge amount of energy – and show the world our commitment to the environment.
- Here are some examples of how much energy can be saved by doing laundry differently.

## **ENERGY SAVED BY WASHING AT DIFFERENT TEMPERATURES**

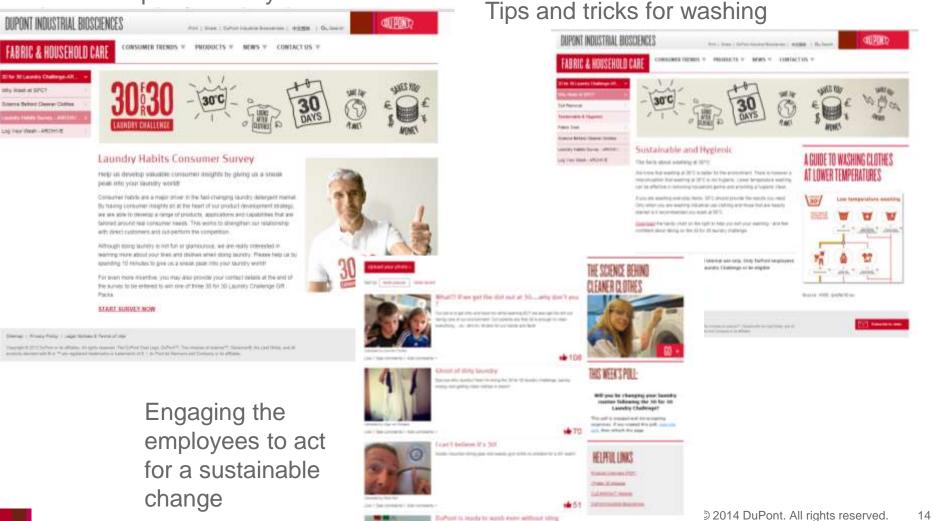


30



## Internal Collaboration to drive a change in consumers habits

#### Consumer panel survey

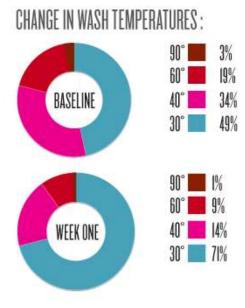


Assessing part of the Assessing - the Lineaged



# Results of the internal collaboration campaign to drive a change to sustainable washing habits

- Nearly 600 people participated in the challenge
- Almost 200 people filled in the consumer panel survey



AVERAGE WASH TEMPERATURE BEFORE CAMPAIGN:	39.5° C
AVERAGE WASH TEMPERATURE AFTER WEEK ONE:	35.4° C



### **Enzymatic Textile Processing**

#### Enzymes

- » Are biodegradable
- » Are made from renewable resources
- » Work under gentler and safer processing conditions
- Reduce the use of energy, water, chemicals, and fabric damage



## **PROTECTION + ENERGY**

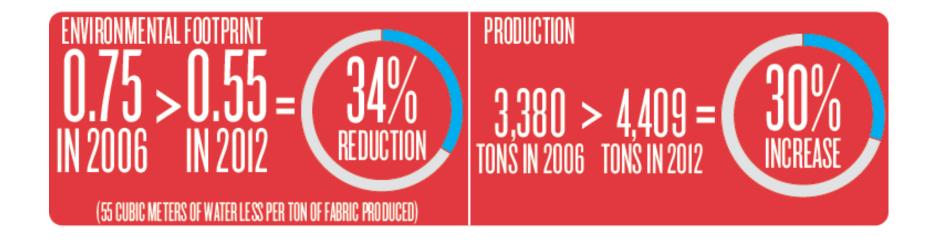
Safeguarding life and the environment.



### **DuPont ™ PrimaGreen ® Handle With Care**

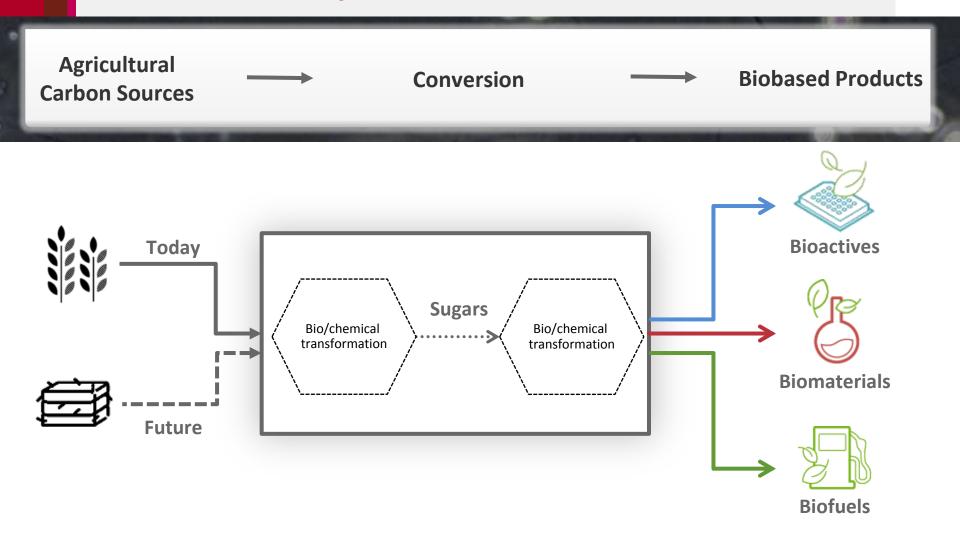








## **Creating World-Changing Solutions for a Biobased Society**



WE'RE SOLVING THE WORLD'S GREATEST CHALLENGES TOGETHER

Our approach to a biobased economy:

## INNOVATION COLLABORATION INVESTMENT

### WELCOME TO THE GLOBAL COLLABORATORY

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DuPont feed additives are traded under the name Danisco Animal Nutrition