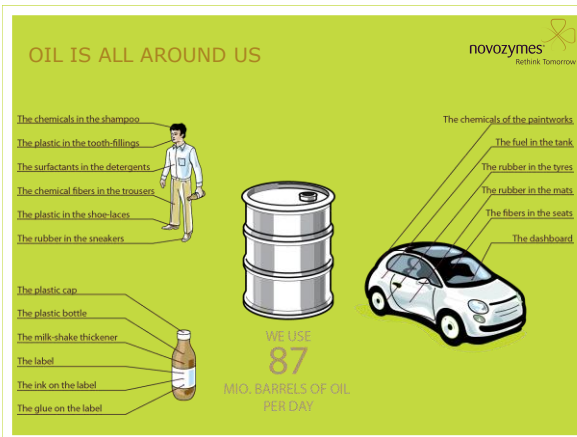




NOVOZYMES IN BRIEF

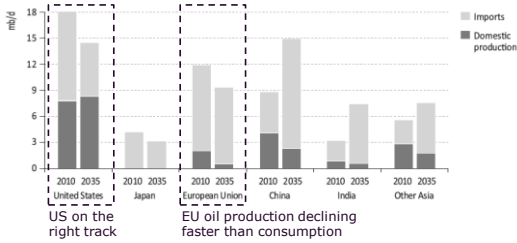






EU DEPENDENCY ON OIL IS INCREASING

Oil demand broken into domestic production and import

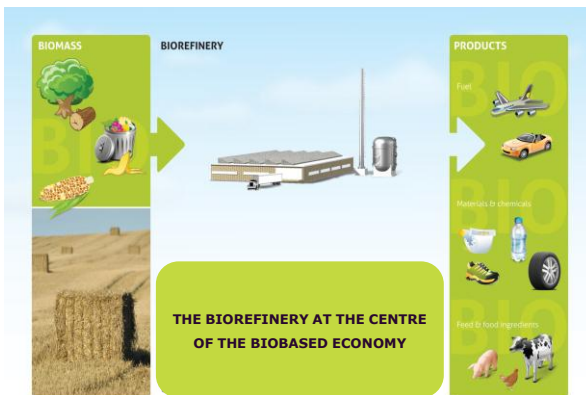


Source : World Energy Outlook 2011, International Energy Agency



THE BIOBASED ECONOMY

The biobased economy is an envisioned future where **biorefineries** have replaced **oil refineries**, and **renewable raw materials** have replaced **fossil fuels** as the primary feedstock for materials, fuels and energy.



WHAT'S IN IT FOR EUROPE?

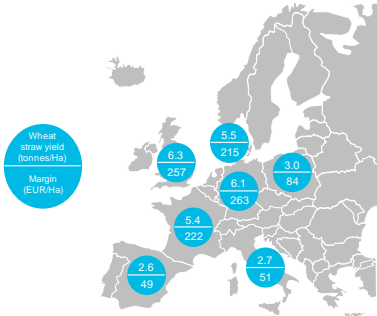


	Growth
	Jobs
	Energy
	Climate

- Generate **€31bn** in revenues*
- Save **€49bn** on oil import*
- Strengthen innovation/technological leadership
- Up to **1mill. jobs** by 2020* mainly in rural zones
- Increase energy security by substituting more than half of all gasoline
- Reducing GHG emission from gasoline related road transport by **50%**

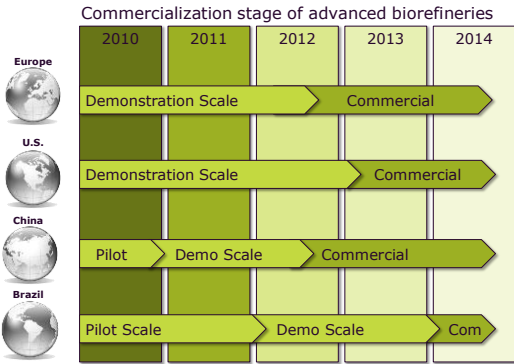
Sources: Bloomberg New Energy Finance (2010), RED.

FARMERS' MARGINS PER HECTARE OF WHEAT STRAW IN 2015



Source: Bloomberg New Energy Finance

THE RACE IS ON



THE MAIN CHALLENGE: OVERCOMING THE INNOVATION DEATH VALLEY



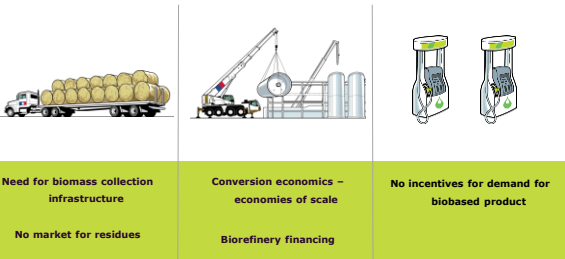
Research
→ knowledge



Bio-based
Products

There is a gap in demonstration scale advanced biorefineries to mature technologies and commercialization/production of high value products

BARRIERS TO DEPLOYMENT IN EUROPE

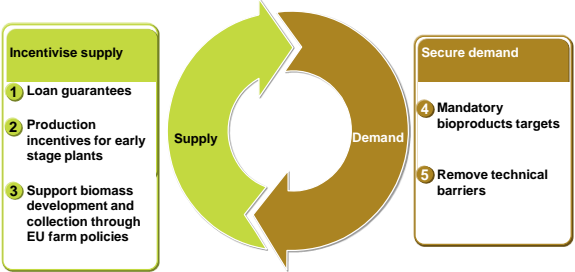


THE ROLE OF POLICY

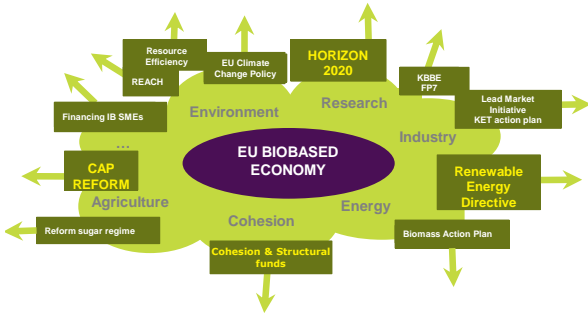


Guiding principle

- Secure demand early and set ambitious target to provide investor confidence
- Incentivise supply simultaneously to lower the cost in a short period



POLICY SUPPORT & COORDINATION ARE NEEDED...



...TO REALIZE THE POTENTIAL