

# BIOENERGY – SCOPE AND FUTURE

**WORLD AGRICULTURAL FORUM, TUESDAY  
NOVEMBER 29 , BRUSSELS**

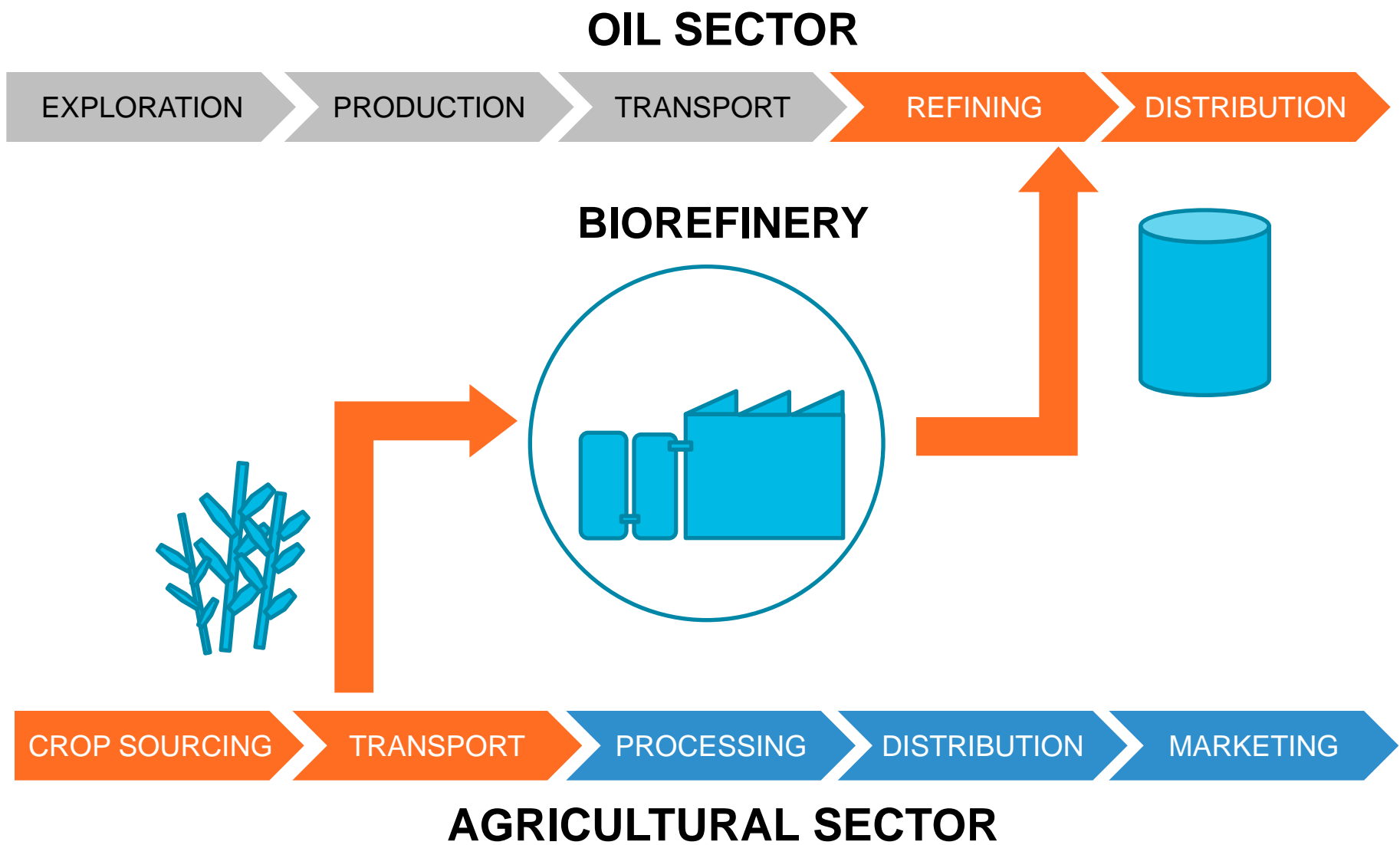
**ROBERTO RODRIGUEZ LABASTIDA**

**29 NOVEMBER 2011**

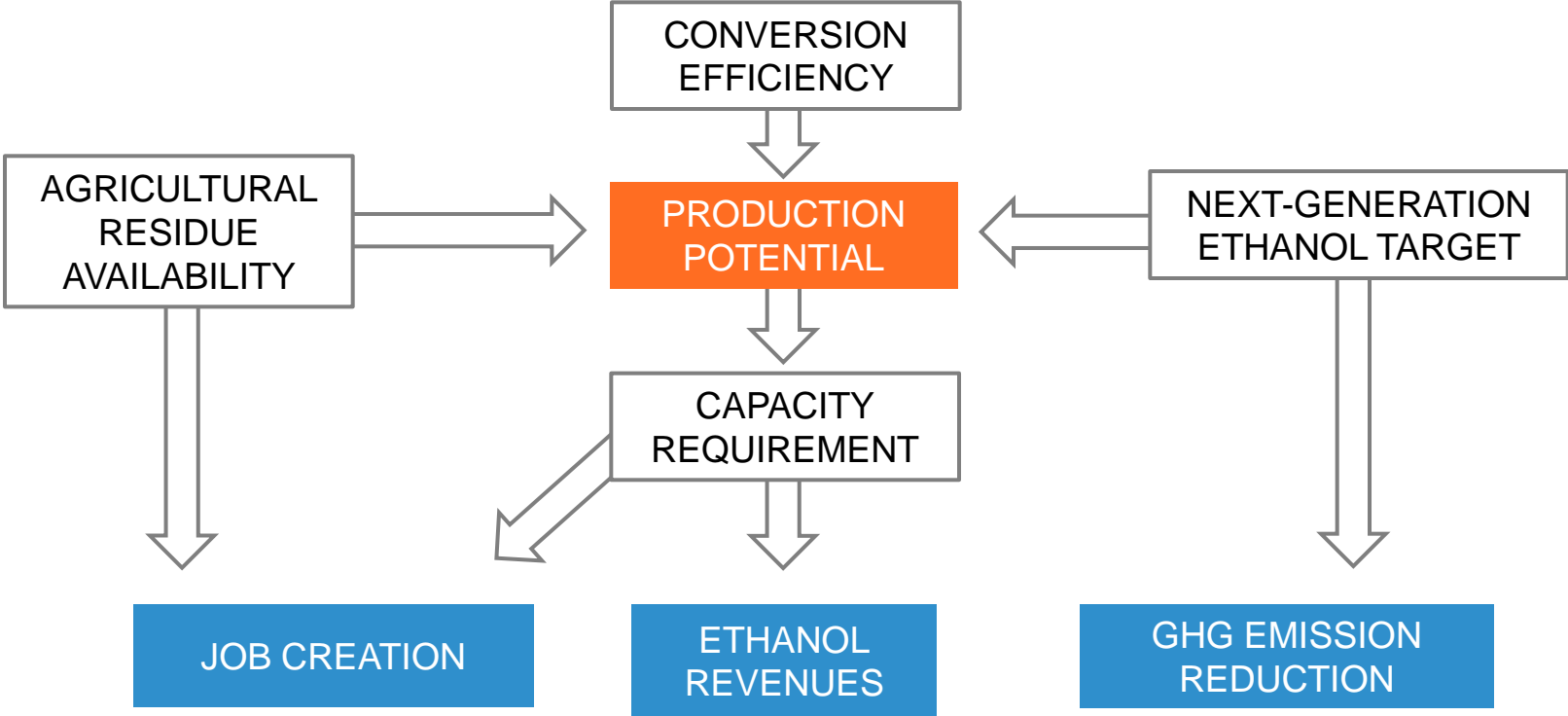
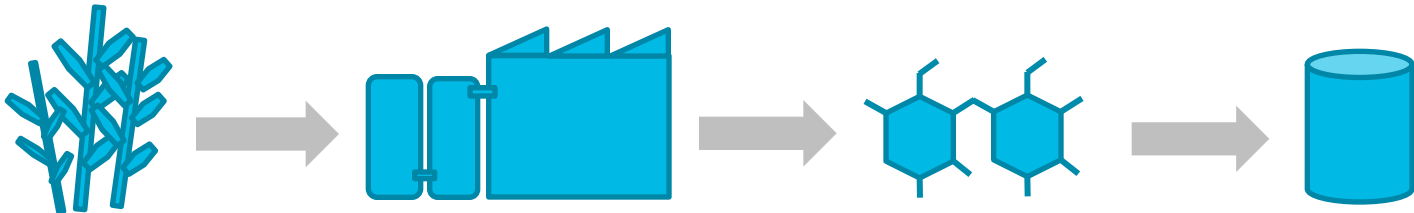


**Bloomberg**  
NEW ENERGY FINANCE

# INTERSECTION OF VALUE CHAINS



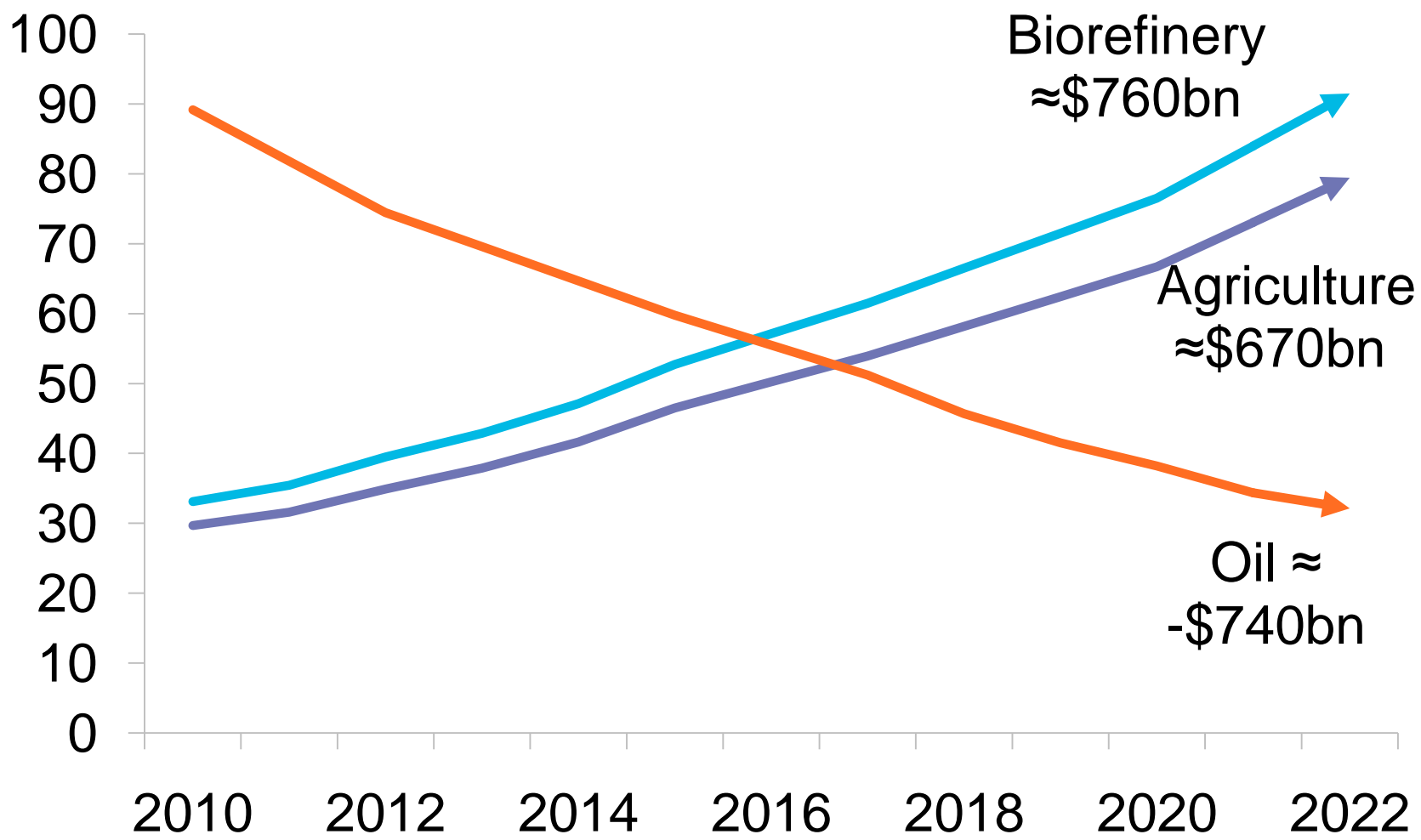
# BENEFITS ACROSS THE NEXT-GENERATION ETHANOL VALUE CHAIN



Note: This study uses next-generation ethanol as an example for all bioproducts.

Source: Bloomberg New Energy Finance

# US RENEWABLE FUEL STANDARD (RFS2) POTENTIAL REVENUES (\$BN)



Biorefinery  
≈\$760bn

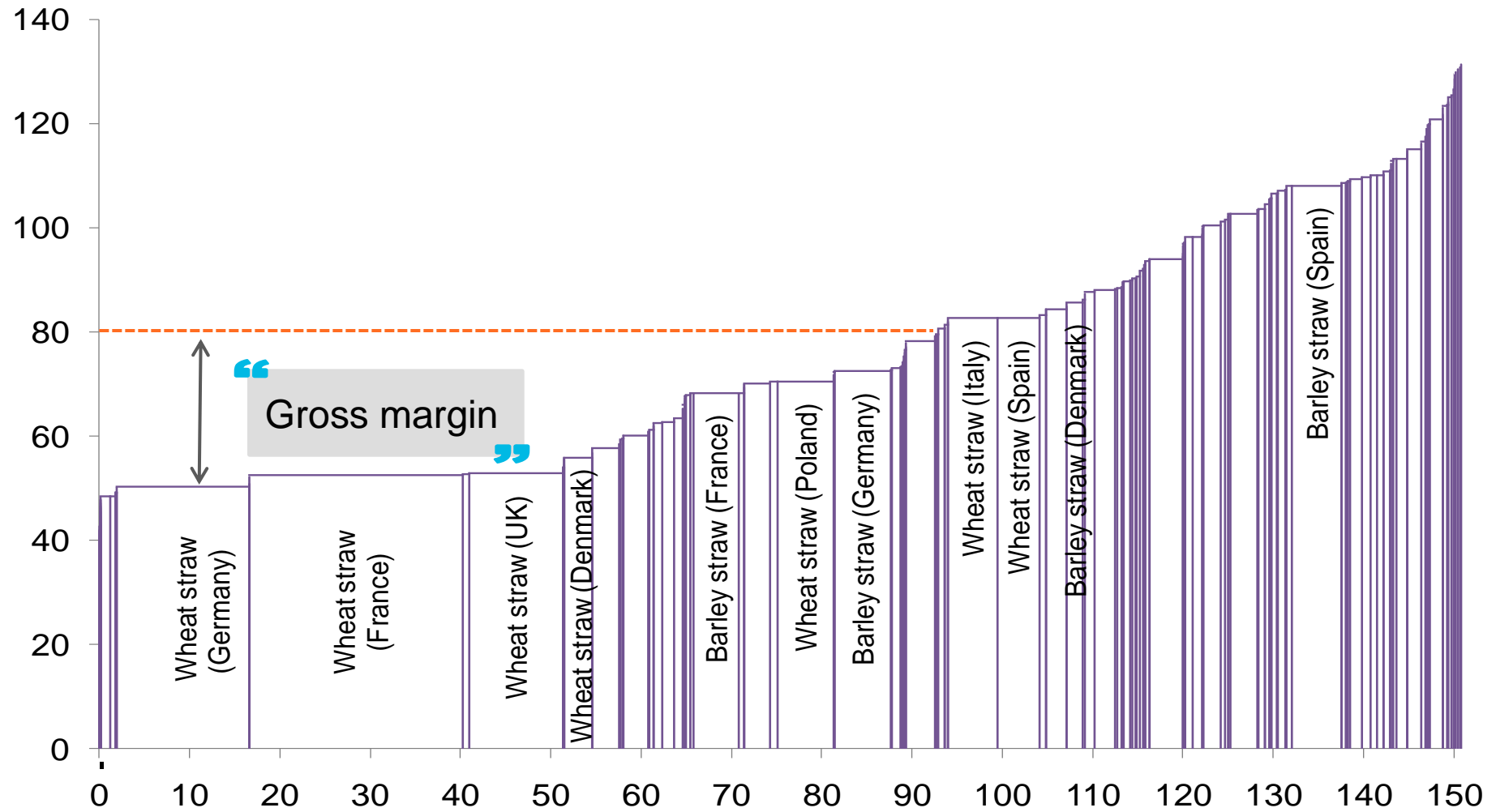
Agriculture  
≈\$670bn

Oil ≈  
-\$740bn

Note: Price assumptions (\$/gallon) : gasoline 3.5, ethanol 2.5, biodiesel 4, diesel 3.8 and corn \$6.5/bushel. Non-corn feedstock revenue assumed at 15% of biofuel price

Source: Bloomberg New Energy Finance

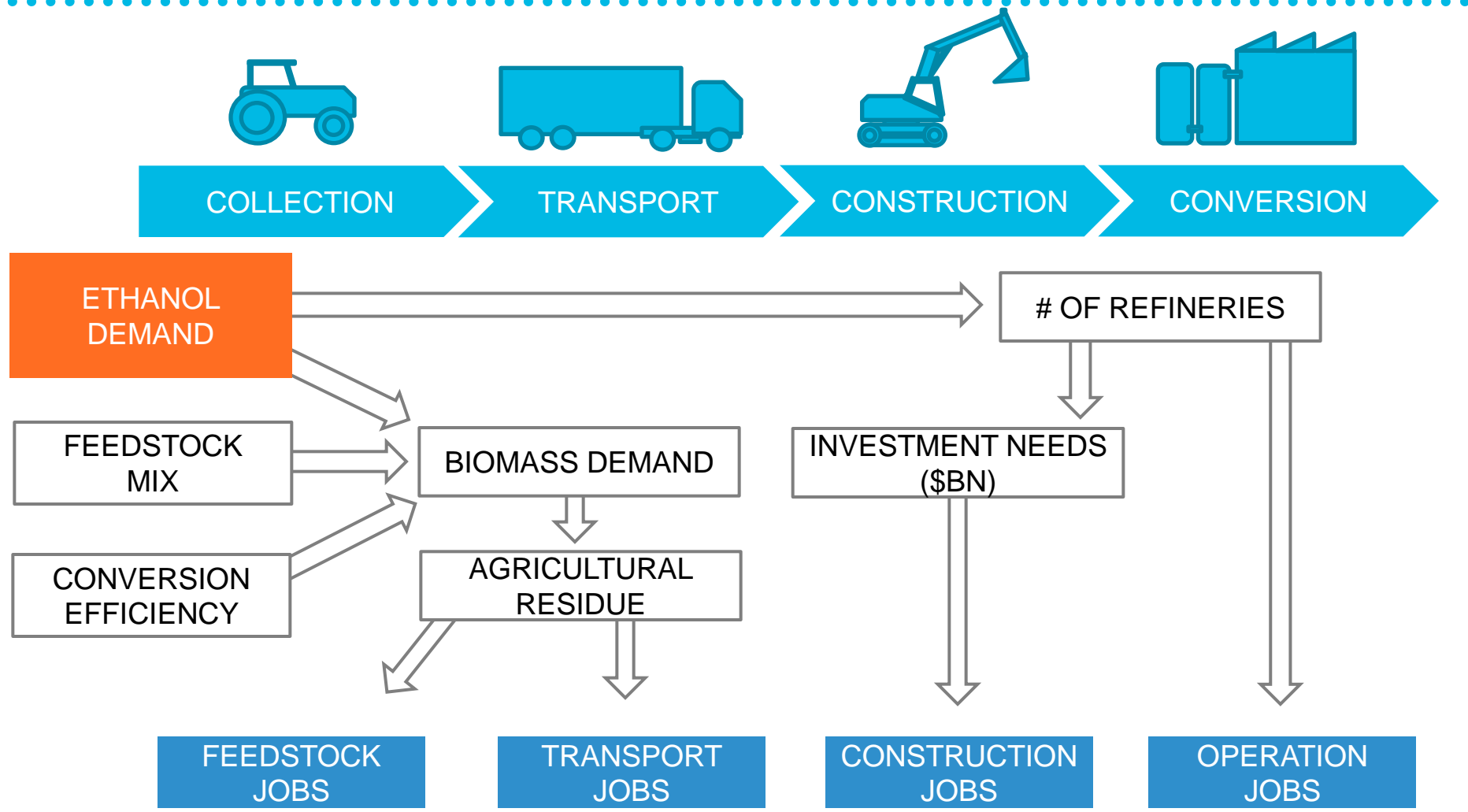
# EU-27 AGRICULTURAL RESIDUE SUPPLY COST CURVE, 2015 (\$/TONNE; MILLION DRY TONNES)



Note: Supply costs represent the sum of all the collecting, transporting and loading agricultural residue costs; although, the EU27 2020 agricultural residues potential amounts to approximately 175m dry tonnes we had to limit our x-axis supply cost curve to 150m dry tonnes.

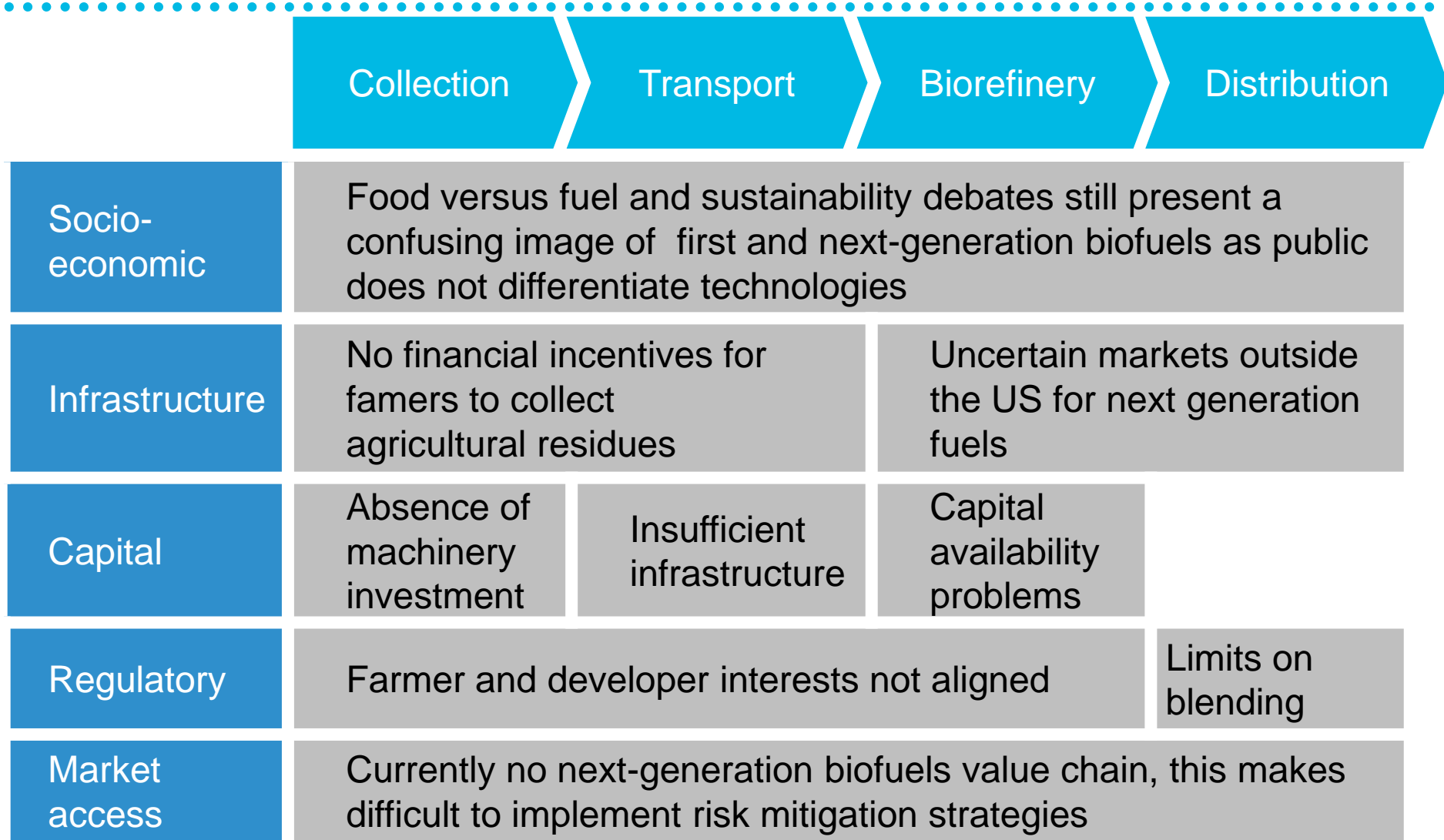
Source: Bloomberg New Energy Finance

# JOB CREATION ACROSS THE NEXT-GENERATION ETHANOL SUPPLY CHAIN



Source: Bloomberg New Energy Finance

# BIOENERGY INDUSTRY CHALLENGES



Source: Bloomberg New Energy Finance

# COPYRIGHT AND DISCLAIMER

---

This publication is the copyright of Bloomberg New Energy Finance. No portion of this document may be photocopied, reproduced, scanned into an electronic system or transmitted, forwarded or distributed in any way without prior consent of Bloomberg New Energy Finance.

The information contained in this publication is derived from carefully selected public sources we believe are reasonable. We do not guarantee its accuracy or completeness and nothing in this document shall be construed to be a representation of such a guarantee. Any opinions expressed reflect the current judgment of the author of the relevant article or features, and does not necessarily reflect the opinion of Bloomberg New Energy Finance. The opinions presented are subject to change without notice. Bloomberg New Energy Finance accepts no responsibility for any liability arising from use of this document or its contents. Bloomberg New Energy Finance does not consider itself to undertake Regulated Activities as defined in Section 22 of the Financial Services and Markets Act 2000 and is not registered with the Financial Services Authority of the UK.



# BIOENERGY – SCOPE AND FUTURE

ROBERTO RODRIGUEZ LABASTIDA  
, RRODRIGUEZLA@BLOOMBERG.NET

## MARKETS

Renewable Energy

Carbon Markets

Energy Smart Technologies

Renewable Energy Certificates

Carbon Capture & Storage

Power

Water

Nuclear

## SERVICES

**Insight:** research, analysis & forecasting

**Industry Intelligence:** data & analytics

**News & Briefing:** daily, weekly & monthly

**Applied Research:** custom research & data mining

**Knowledge Services:** Summit, Leadership Forums, Executive Briefings & workshops

Subscription-based news, data  
and analysis to support your  
decisions in clean energy, power  
and water and the carbon markets

[info@bnef.com](mailto:info@bnef.com)

**Bloomberg**  
NEW ENERGY FINANCE