



Amyris

Fullbright Course - USP

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Legal Disclaimer



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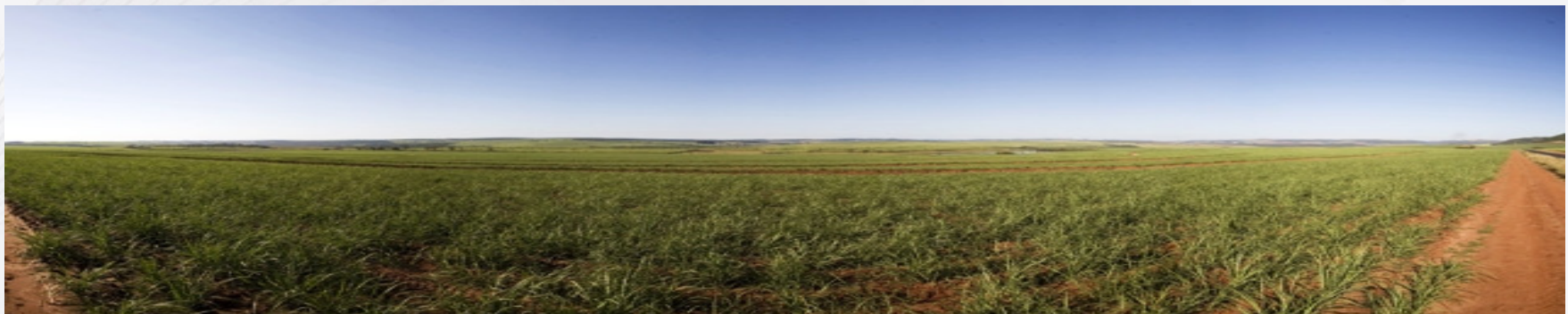
The information presented today is confidential and proprietary to the Company and is being submitted for the recipients' confidential use with the express understanding that, without the prior express written permission of the Company, such persons will not discuss the information presented today with any third parties.

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Overview



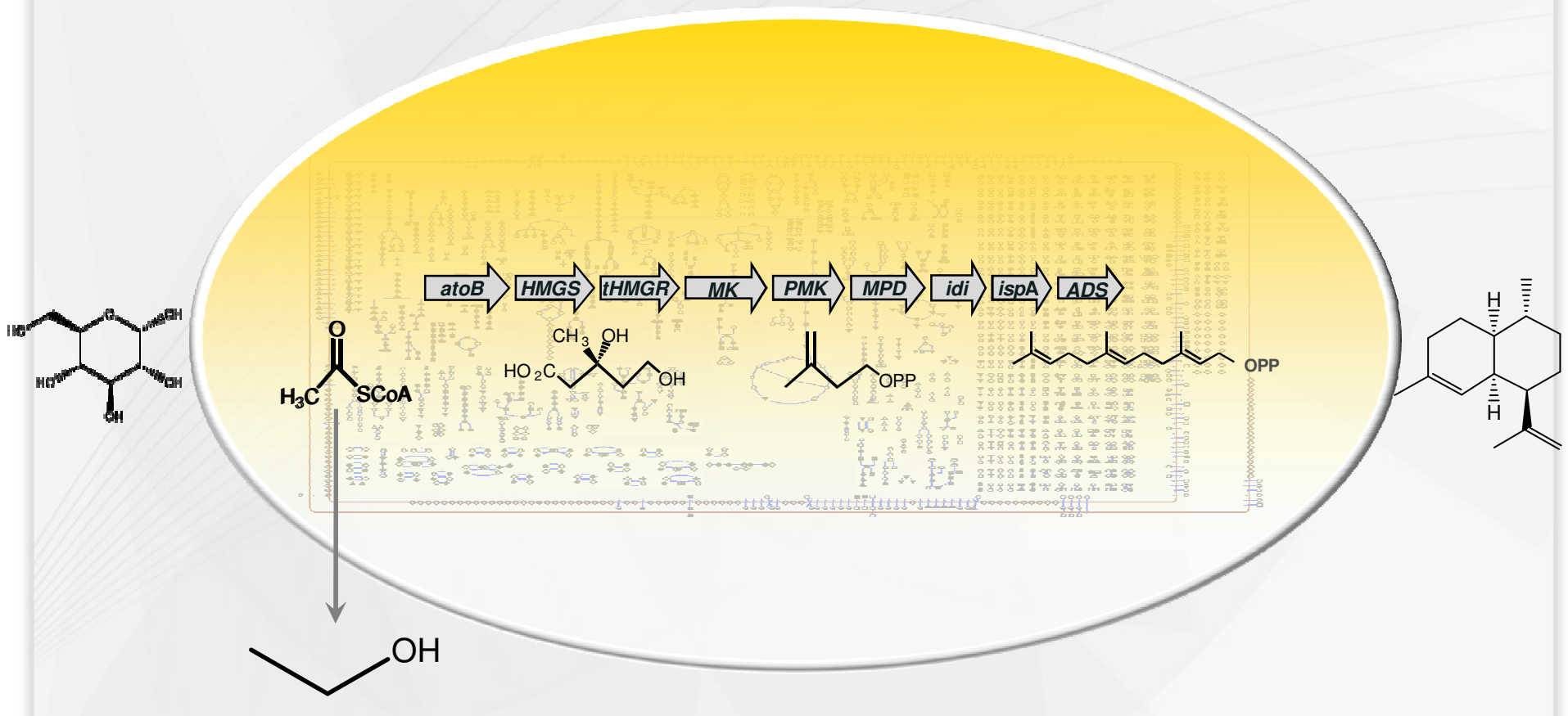
- ▶ Amyris is an integrated renewable products company producing advanced renewable fuels and chemicals:
 - Proprietary technology already delivered first commercial-scale success
 - Use existing sugar/ethanol mills for large volume production
 - Commercial scale renewable products in April 2011
- ▶ Founded in 2003 on principle of social responsibility: use our know-how to address biggest health and environmental challenges
- ▶ World's leading investors: Kleiner Perkins, Khosla ventures, TPG



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Synthetic Biology

Reprogramming microbes to meet specific needs



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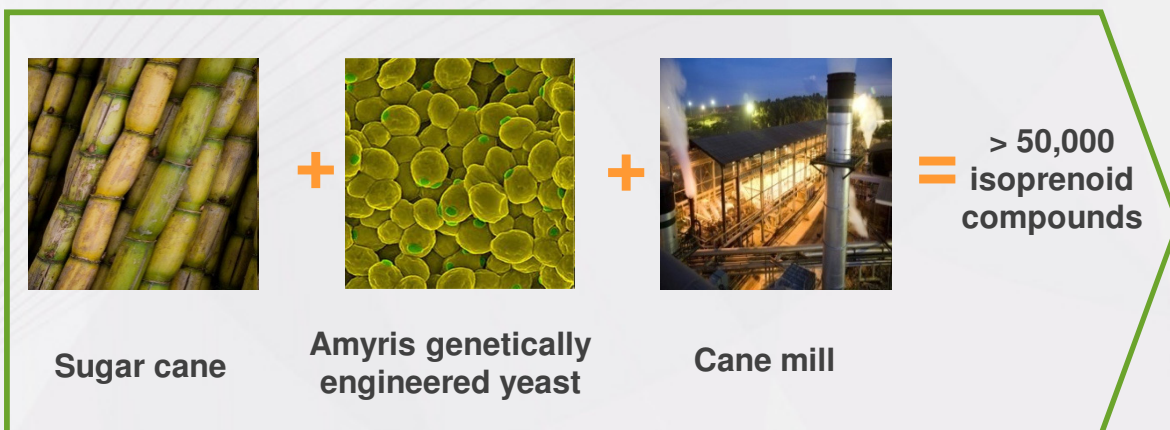
Enabling a bio-based economy



Traditional oil source



Amyris engineered yeast in fermentation



Wide range of products

Diesel

2020 est: 450 billion gallons

Jet fuel

2020 est: 124 billion gallons

chemicals:

e.g. synthetic rubbers,
lubricants

Anti-malaria drug

non-profit: treat over 200 million people annually

Application of Synthetic Biology

The Challenge: Supplying Artemisinin Anti-Malarials



Malaria causes:
1 to 3 million deaths per year

Treating malaria would require:
300 to 500 million treatments per year



Artemisinin treatments needed:
225 to 400 tons of artemisinin per year

This would require:
6,000,000 tons of plant material

50X increase in production

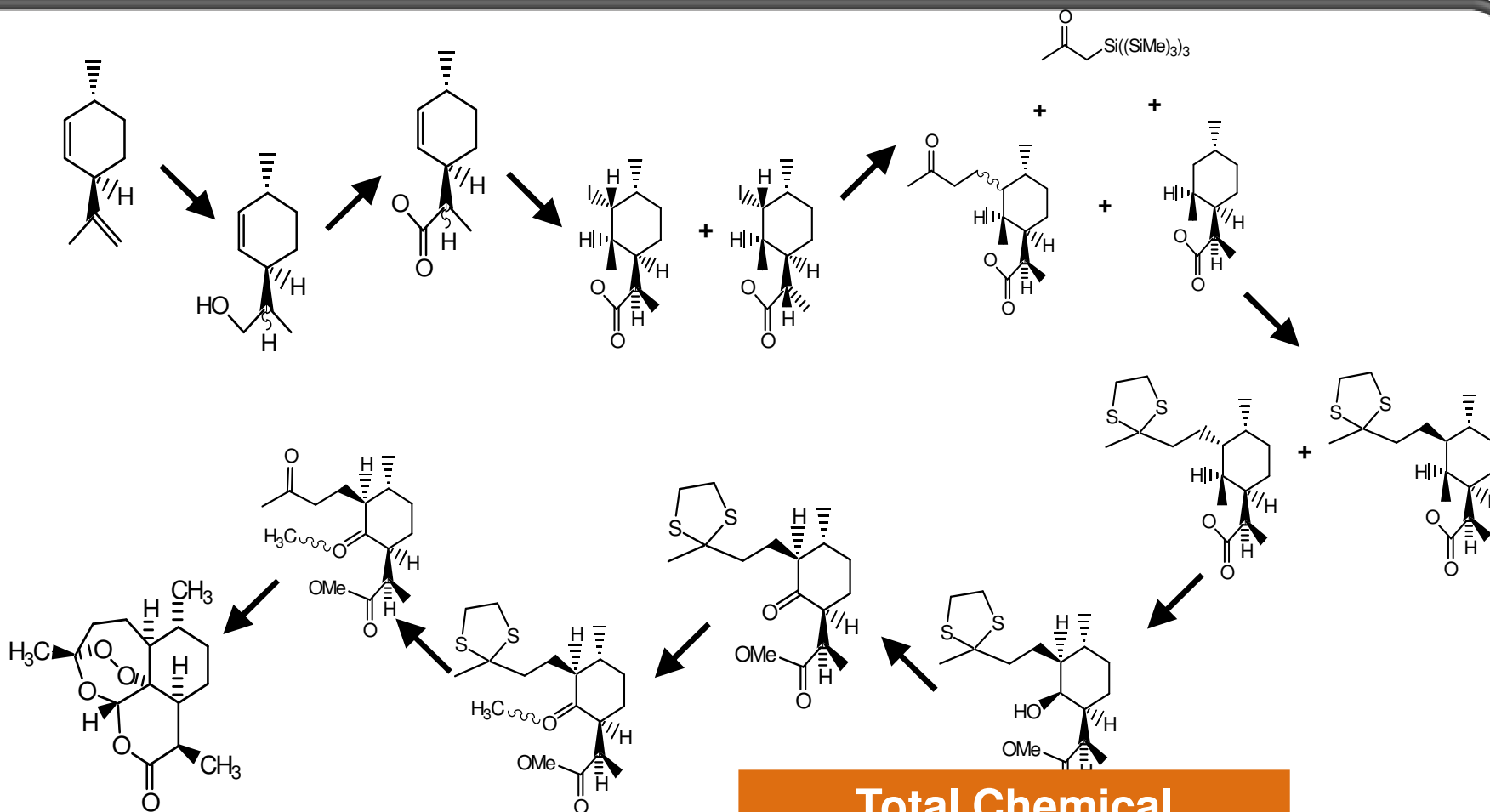
Total Chemical

Consistent reliable supply

...ation may constitute "forward-looking statements" within the meaning of the Securities Act of 1933 and the Securities Exchange Act of 1934. Such statements are based on the current expectations of management and are subject to the risks and uncertainties that may affect the financial condition, results of operations, business and initiatives of the company in 2008 and beyond and are subject to certain risks associated with the development and commercialization of synthetic biology. Nothing said today is, or should be relied on as, a promise or representation as to the future performance of the Company. This presentation should not be construed as a general solicitation. © 2006 Amyris Technologies. All rights reserved.

Supplying Artemisinin

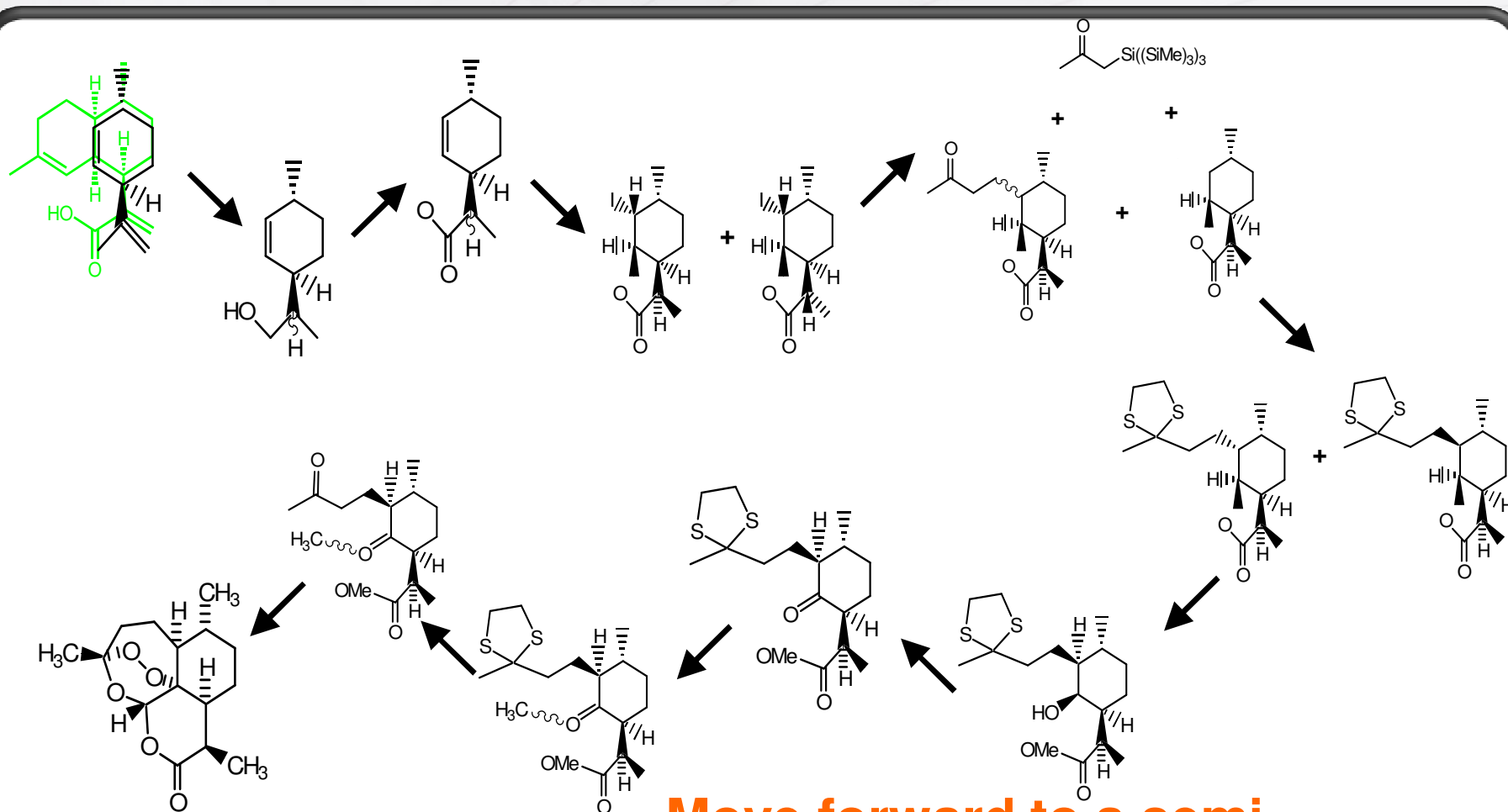
Chemical Synthesis - Too Expensive and Low-Yields



Total Chemical

Supplying Artemisinin

Chemical Synthesis - Too Expensive and Low-Yields



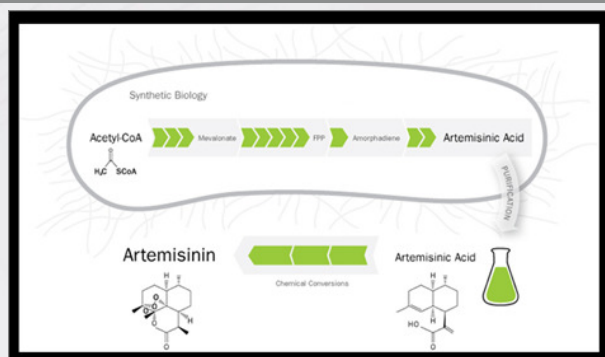
Move forward to a semi-synthesis

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Proven technology – Artemisinin



- Successfully engineered microbe to provide a reliable and affordable supply of artemisinin - key ingredient in malaria treatment
 - Entered into development with sanofi-aventis in Jan 2008; successfully transferred strain and processes in mid-2008
 - Increased yield 10-fold in 2007 (6-fold since Jan 2008), exceeding sanofi-aventis' target yield by 25%
- With minor changes to artemisinin microbe, we can access numerous other compounds
- Non-profit project that defined company culture and solidified our commitment to make a difference with our technology



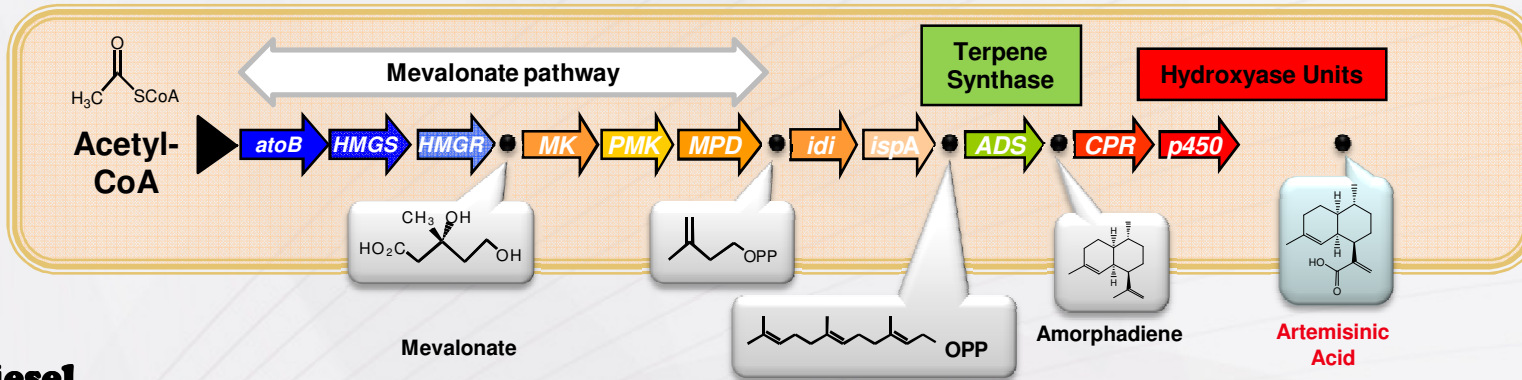
Artemisinin from Amyris Lab

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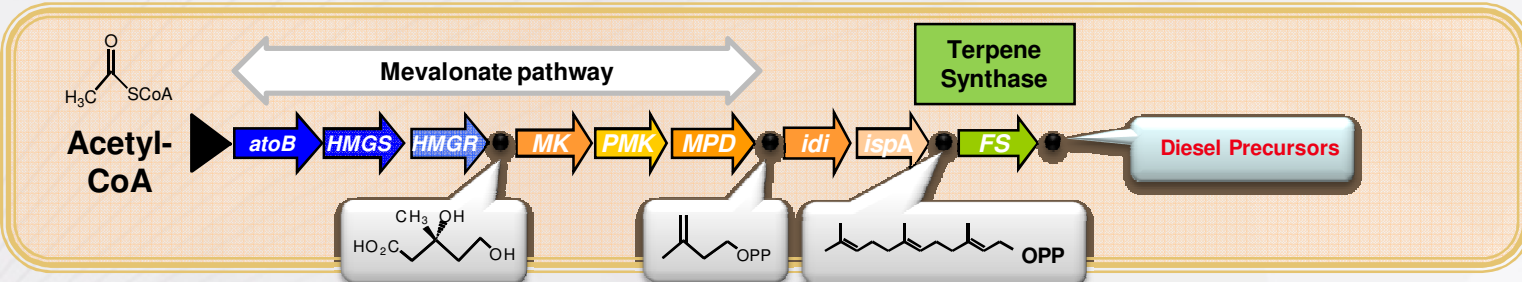
A platform technology for production of multiple products



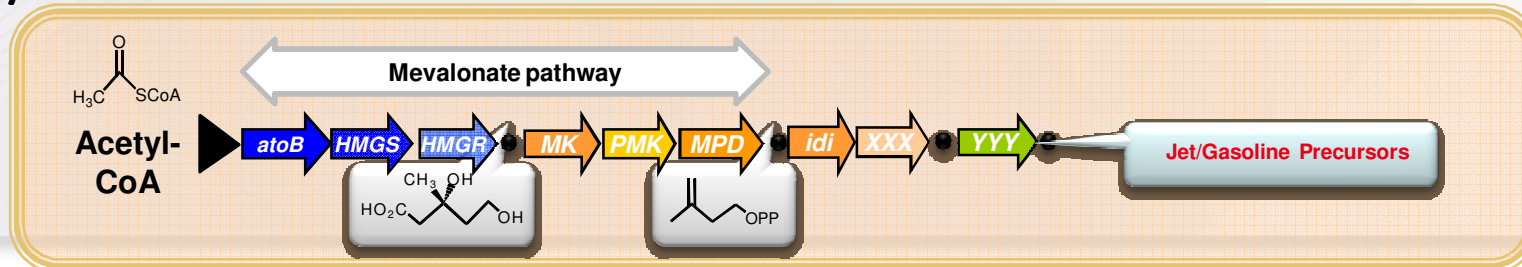
Artemisinin



Diesel



Jet/Gasoline



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1st generation biofuels

A fantastic start, but not without compromise

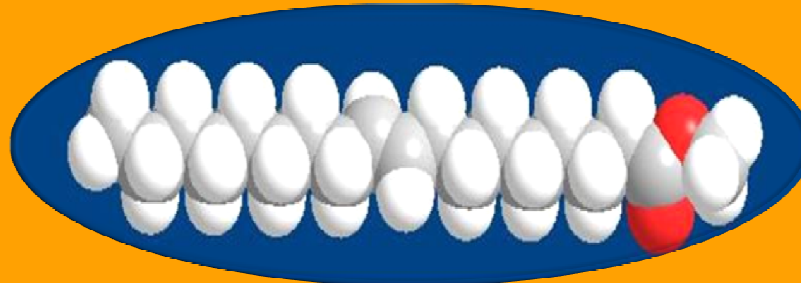


Ethanol



Material Compatibility Problems
High Vapor Pressure
High Water Solubility
Low Energy Density

FAME Biodiesel



Poor Oxidation Stability
High Cloud/Freezing Point
Poor Pipeline
Transportability

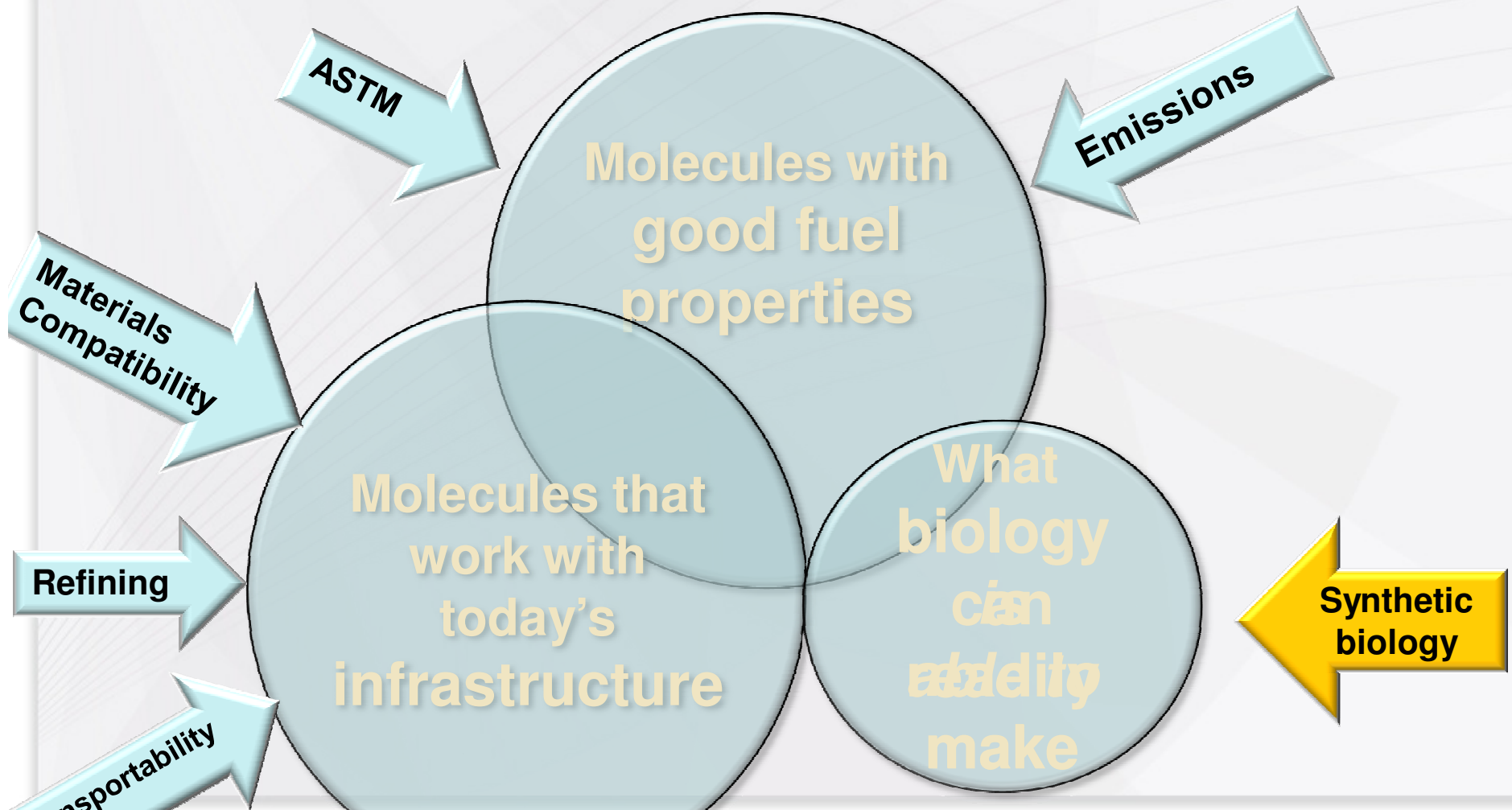
Each of these issues are managed, but at a cost, requiring changes in:

Refineries
Pumps
Rail Capacity

Vehicles
Pipelines
Trucking Capacity

Engineered Biofuels:

A step-change in the industry

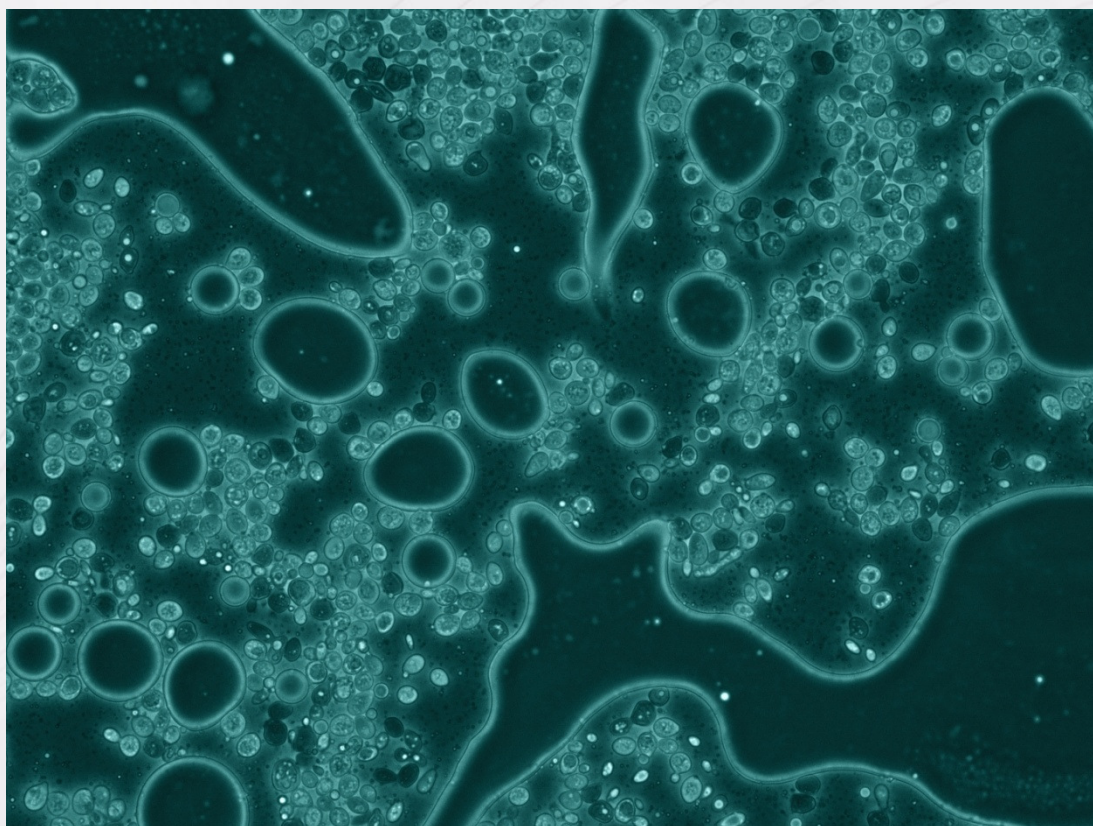


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Amyris breakthrough technology



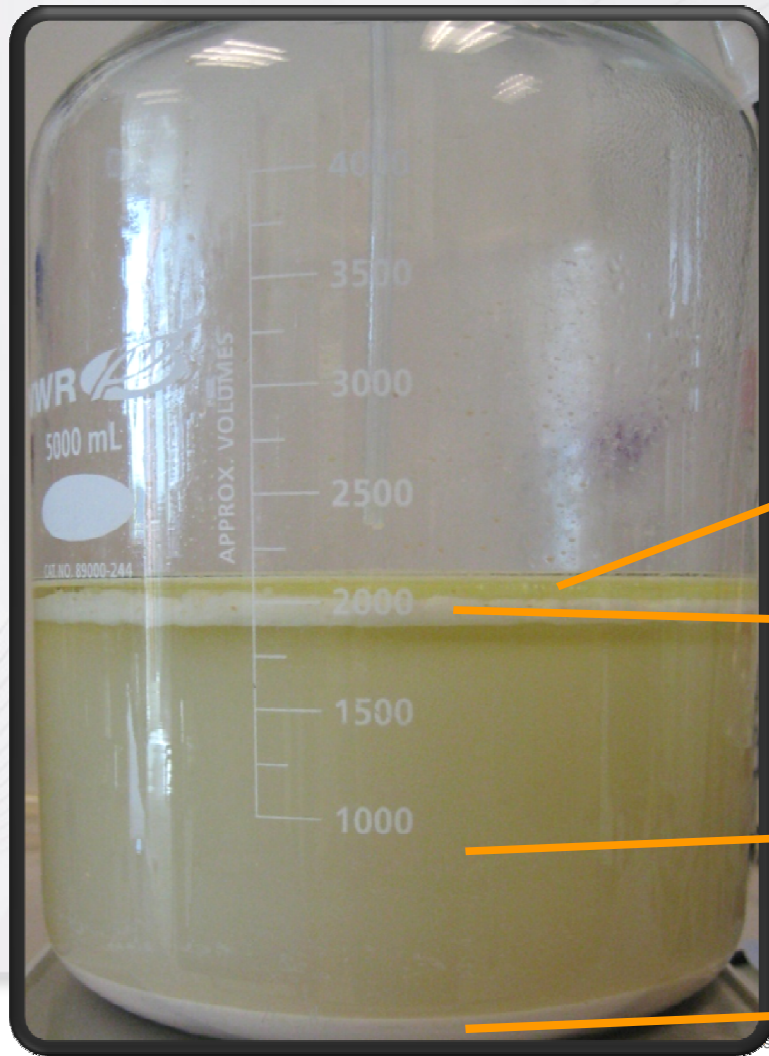
Amyris engineered microbes can convert sugar to hydrocarbons



Phase-contrast
micrograph of Amyris
engineered microbes
producing precursor to
Amyris Renewable Diesel

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Amyris fermentation-derived hydrocarbons lead to reduced processing costs



Amyris diesel

Emulsified Diesel
(separates upon low-g centrifugation)

Fermentation Broth

Settled Biomass

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Amyris No Compromise™ fuels



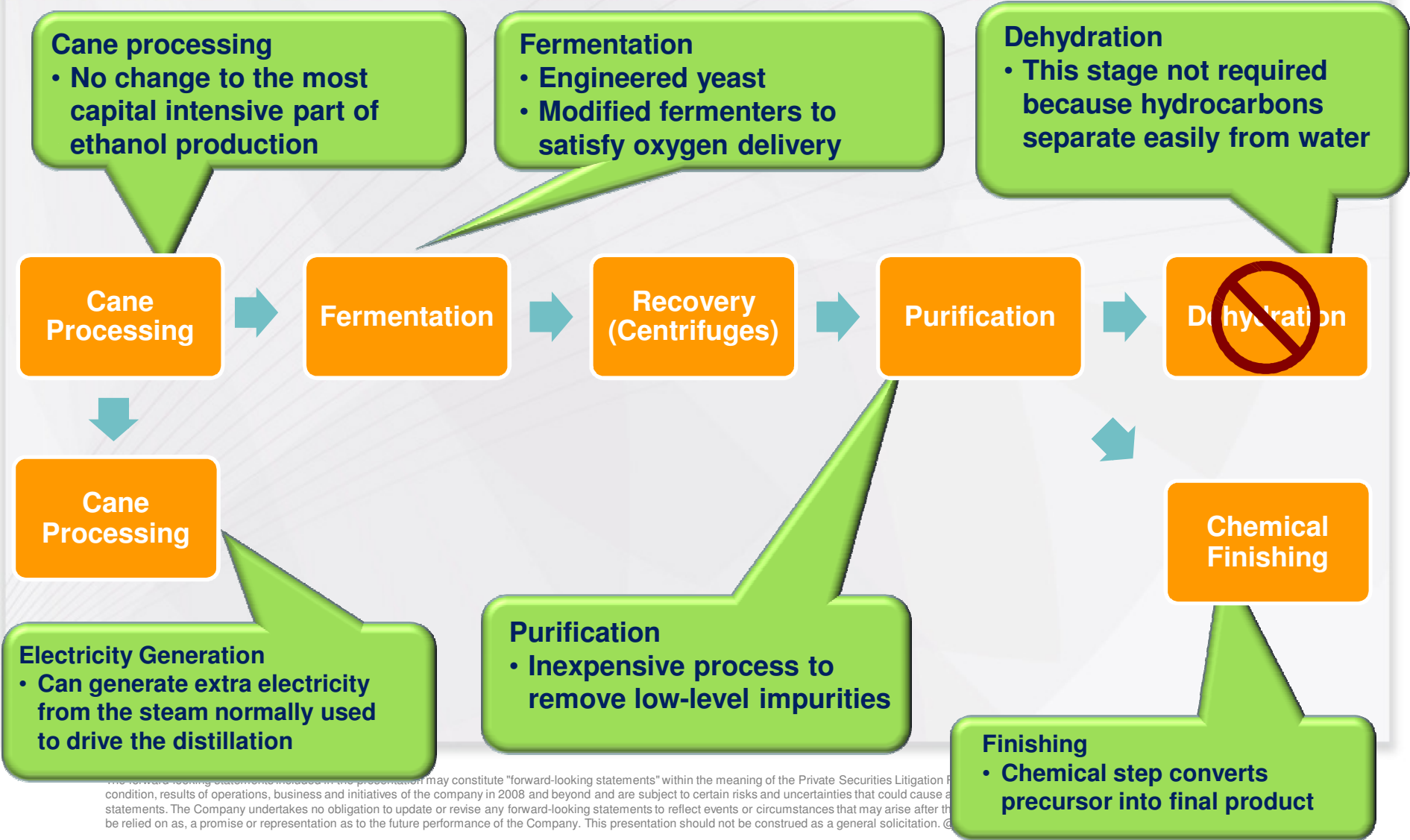
- **Can be produced using various sugar-containing feedstocks**
- **Hydrocarbons (not alcohols or esters)**
 - Can be used in existing engines with no performance trade-offs
 - Can be blended at up to 50%
 - Can be delivered using existing distribution infrastructure
- **Superior environmental profile**
 - 80%+ lower greenhouse gas emissions than petroleum
 - No sulfur
 - Lower particulates and NOx
- **Price competitive with petroleum**
- **Received US EPA certification**



Amyris diesel fuel (clear) in front; petroleum diesel (yellow) in the back

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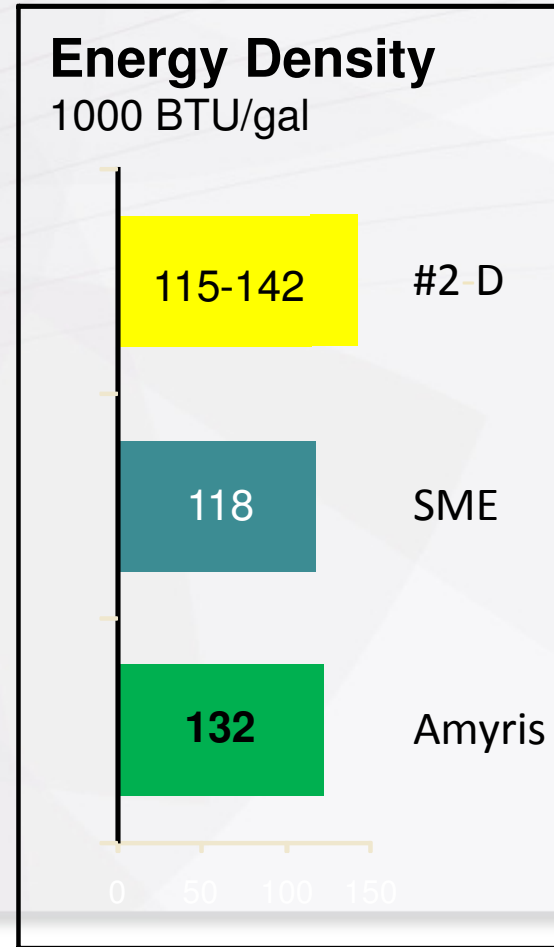
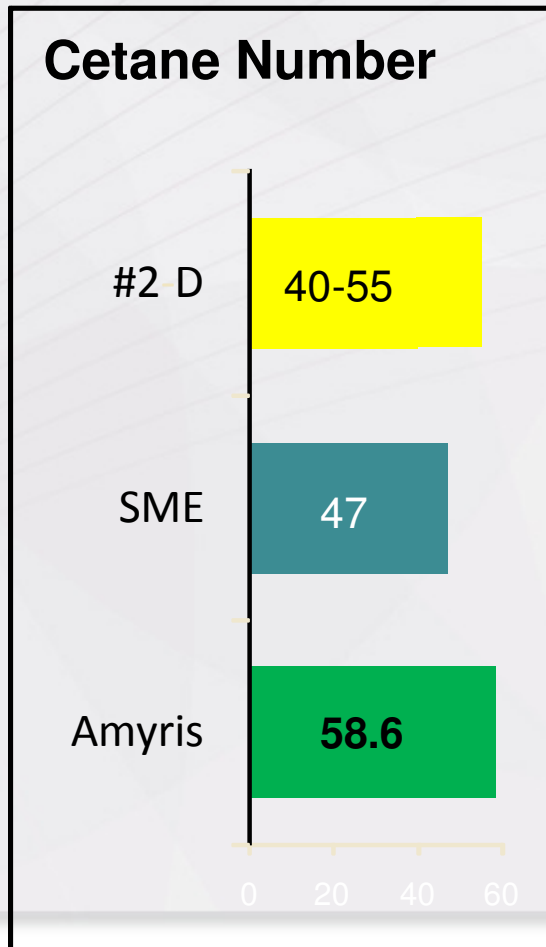
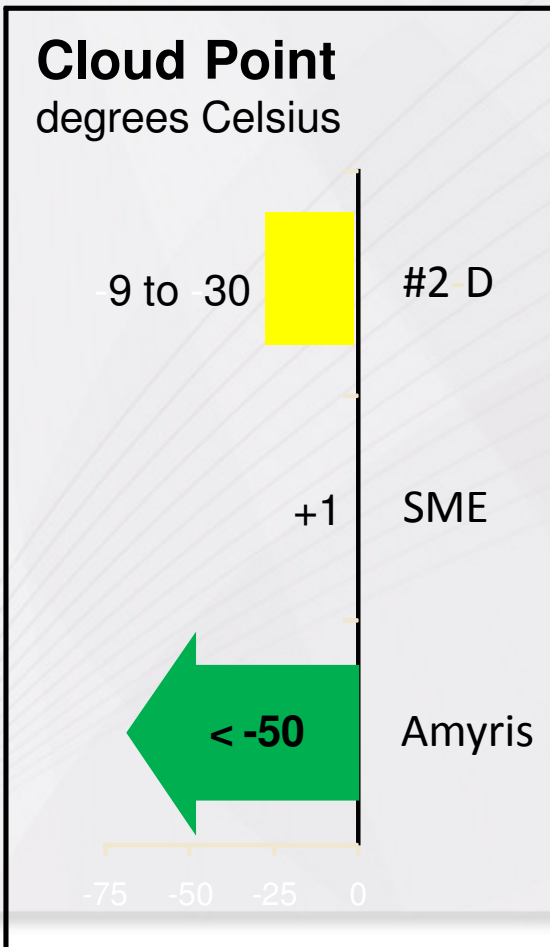
Amyris' sugarcane to diesel production process



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Amyris Diesel:

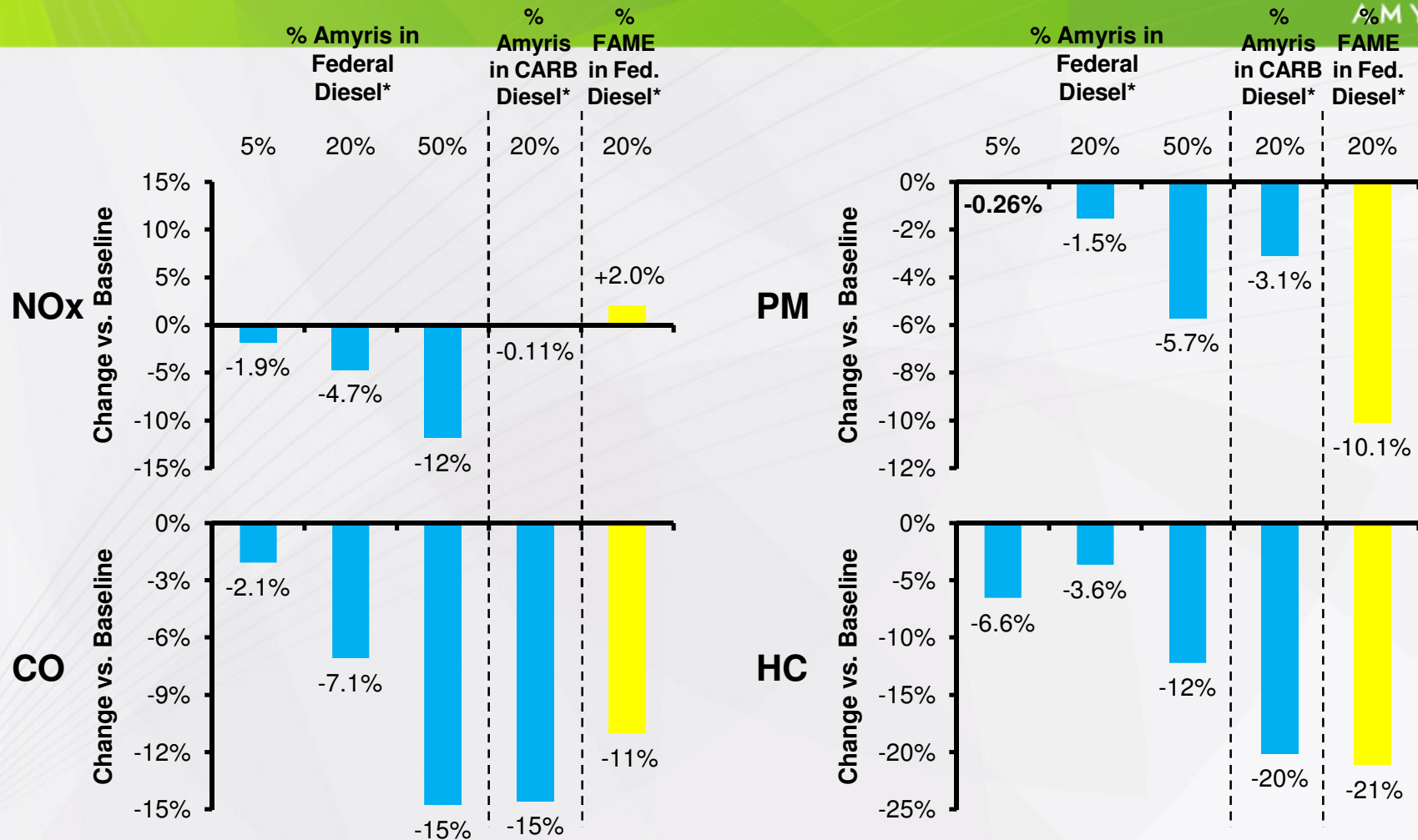
Validated by external labs as a “best-in-class” product



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Amyris Diesel: Regulated Emissions

Significant reductions in NOx, PM, CO, and HC

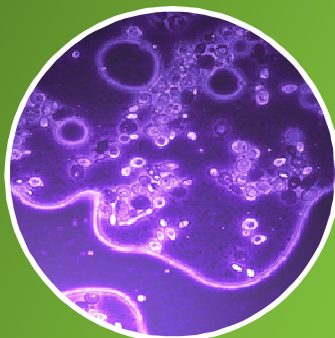


* Detroit Diesel Series 60 engine (5 gram NOx) no EGR, tested at SwRI May 2008

** Source: EPA (<http://www.epa.gov/otaq/models/analysis/biodsl/p02001.pdf>)

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Business model



TECHNOLOGY

- Pioneering technology platform capable of making more than 50,000 molecules
- New strain of yeast turns sugar into hydrocarbons



MANUFACTURING

- Access to lowest cost feedstock (first sugarcane, then cellulosic)
- Lowest carbon footprint
- Owned and 3rd party production assets



PRODUCTS

- No Compromise® fuels
- Family of renewable chemicals
- Anti-malarial ingredient (non-profit initiative)

Integrated renewable products company

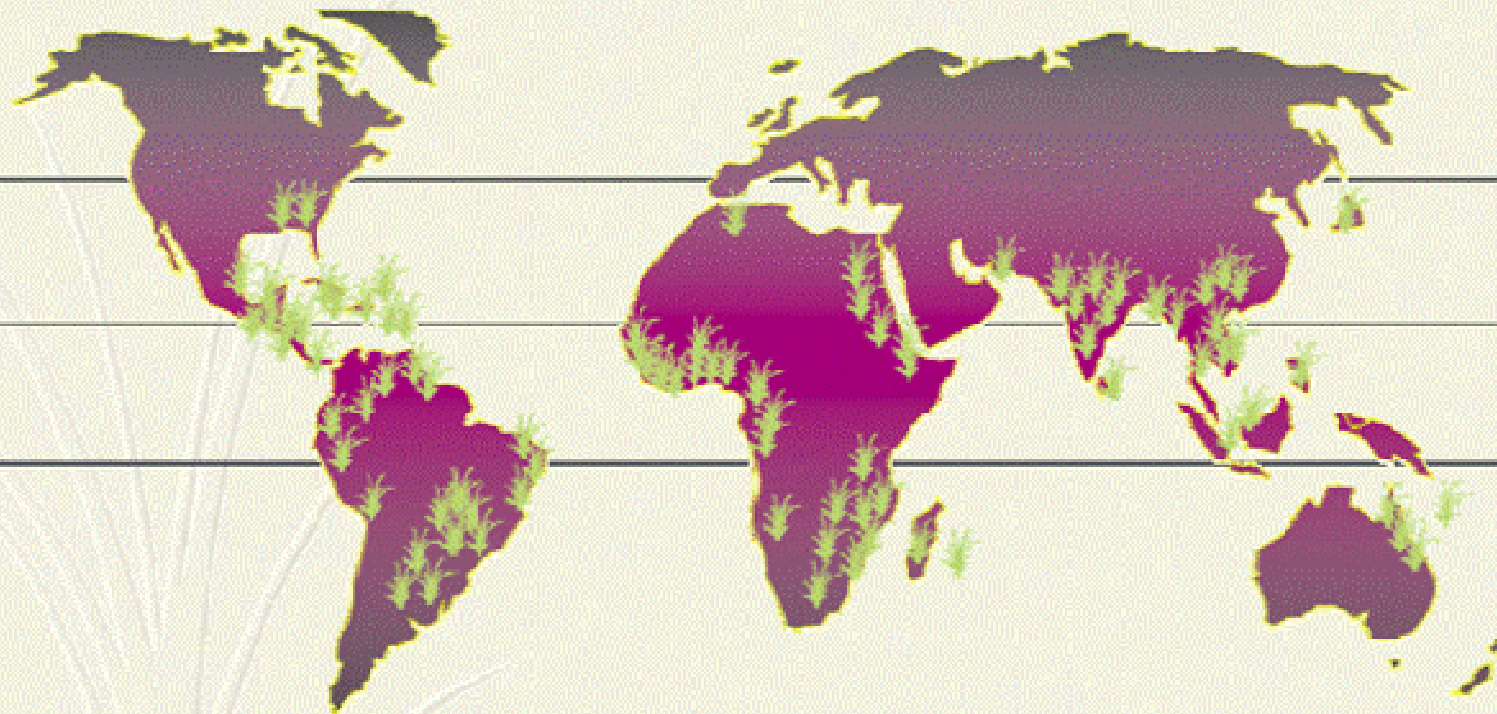
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Energy Security through supply diversification

...Sugarcane potential is not nearly as concentrated as oil.



WORLD SUGARCANE MAP

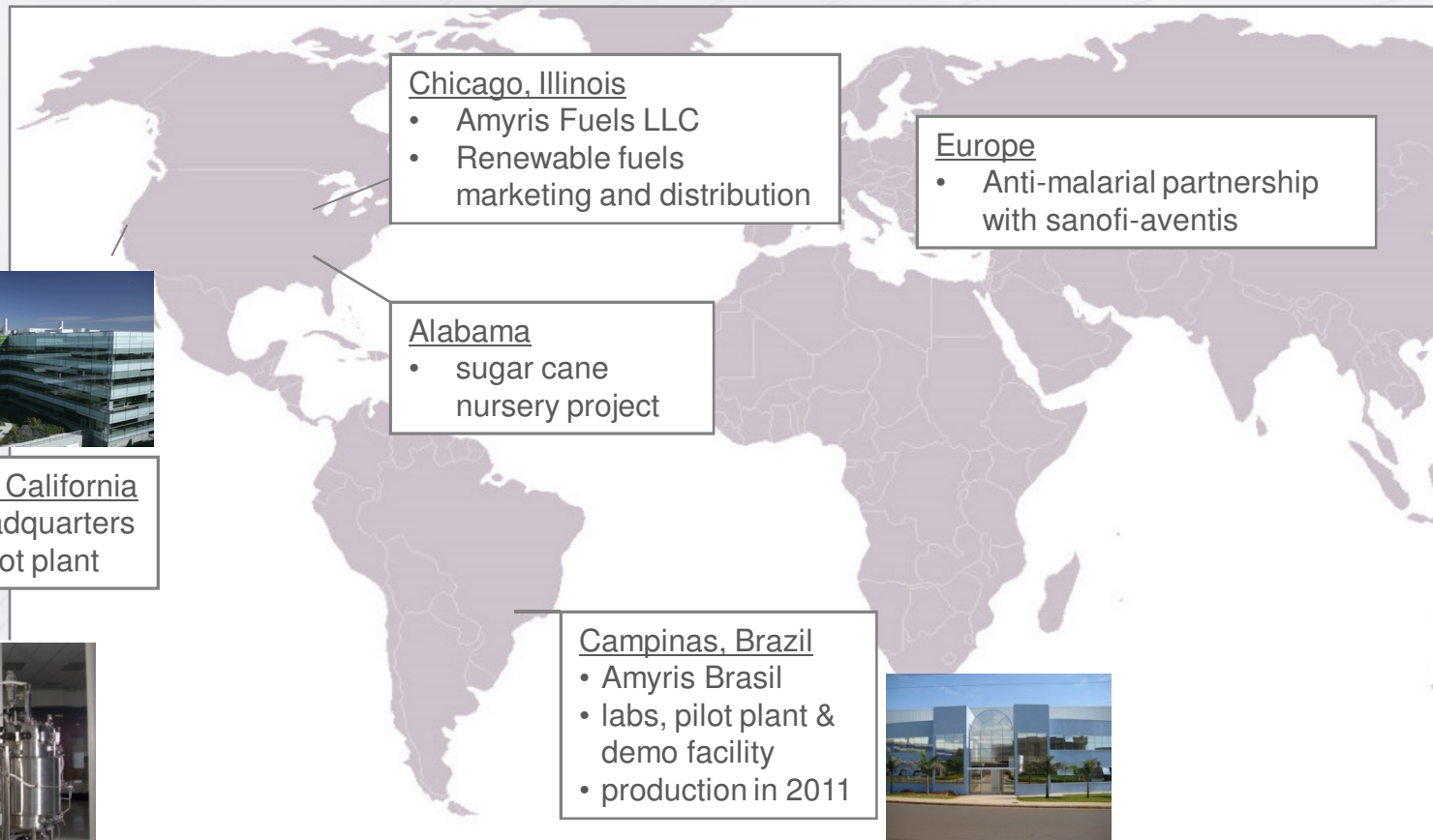


**100 countries could supply biofuels to 200 nations,
while currently 20 oil producers provide fossil fuels today.**

Source: **British Sugar c/o UNICA**

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Amyris today



Chicago, Illinois

- Amyris Fuels LLC
- Renewable fuels marketing and distribution

Europe

- Anti-malarial partnership with sanofi-aventis

Alabama

- sugar cane nursery project



Emeryville, California

- ABI headquarters
- labs, pilot plant

Campinas, Brazil

- Amyris Brasil
- labs, pilot plant & demo facility
- production in 2011



... combining great science and innovative business to create a more sustainable world

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Participation in value chain



Amyris will participate in various aspects along the biofuels value chain



Amyris GreenLane™

Partner with large scale manufacturer with access to low cost feedstocks

- Take product from plant gate to wholesaler
- Logistics contracts to facilitate high volume distribution

- Sell to fastest growing retail segment
- Access to end customers (commercial accounts)

Amyris participation

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Pathway to commercialization



2009



Brazil R&D center inaugurated in Campinas

Brazil and US Pilot plant operational

Brazil Demo Facility opened

Secure production in Brazil

- **Owned/controlled**
- **Third parties**

2010



Convert Brazil ethanol mills to produce Amyris renewable products

- **Engineering of commercial plant has been finalized and EPCM CH2Hill has been engaged**

Commercialize first product out of demo facility

2011



First large scale production of Amyris renewable products

Continue mill conversion and expansion

2012



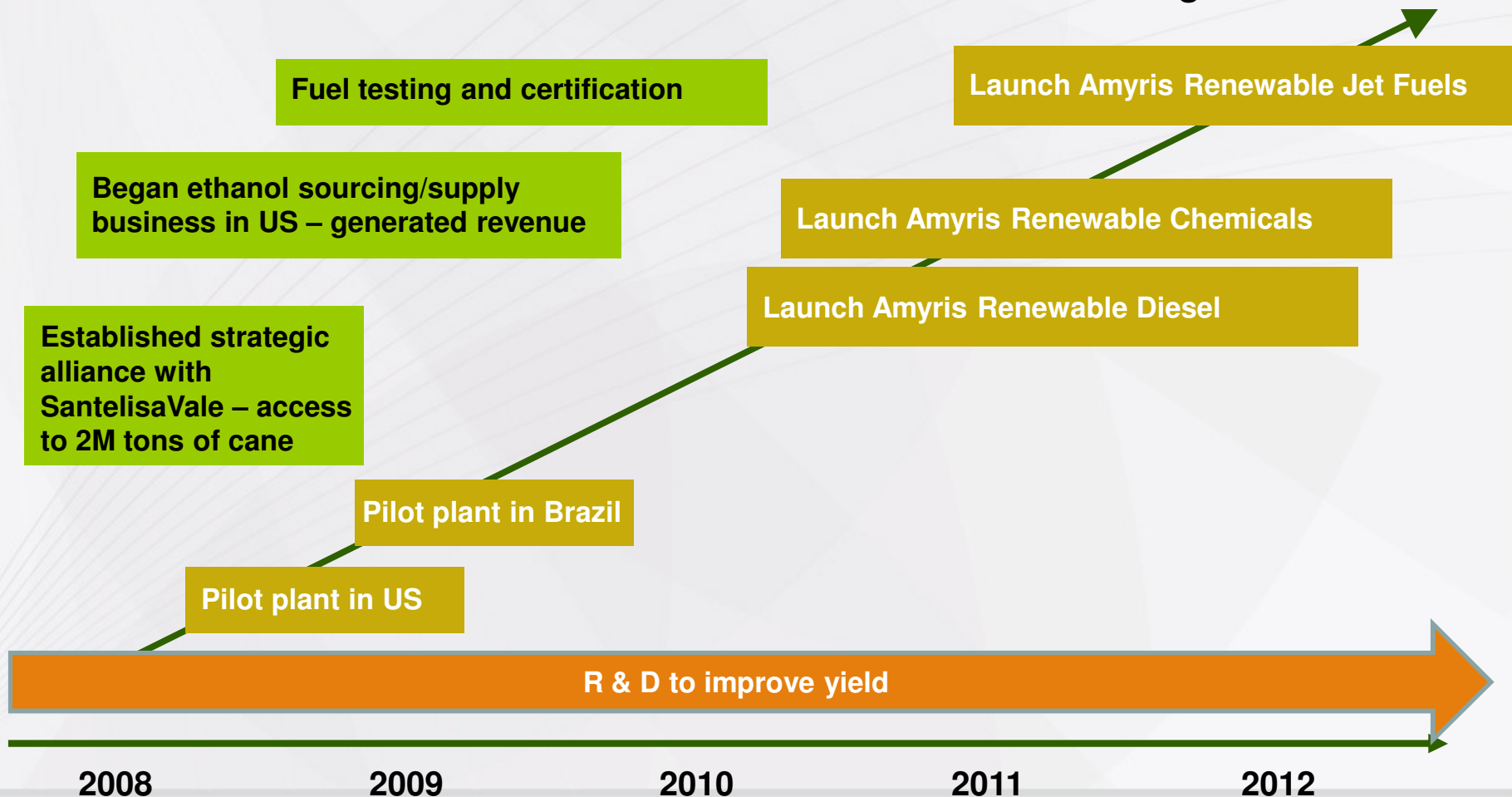
First commercial production by third party mills

Amyris corporate strategy

Our planned 5 year journey



Increasing value



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Management: industry leading team



Select Officers

John Melo (CEO)

Former President of US Fuels, BP

Paul Adams (SVP, Commercial)

Former VP of Supply & Trading, BP

Jeryl Hilleman (CFO)

Former CFO, Symyx Technologies

Jeff Lievense (SVP, Process Development and Manufacturing)

Former VP Technology & Process Development, Tate and Lyle

Joel Cherry (SVP, Research Programs and Operations)

Former Senior Director, Novozymes

Founders

Jay Keasling

(Chair, SAB; Technical Advisor)

Professor at UC Berkeley

Jack Newman (SVP Research)

Kinkead Reiling (SVP Corporate Development)

Neil Renninger (CTO)

Board Members (external)

John Doerr

Kleiner Perkins Caufield & Byers

Samir Kaul

Khosla Ventures

Geoff Duyk

TPG Biotechnology

Ralph Alexander

Riverstone LLC

Fernando Reinach

Votorantim



Board and Advisors

Rui Ferraz, Crystalsev

Paul Adams, Jeff Lievense, Amyris

Roberto Rodrigues, ex-minister of Agriculture

Fernando Reinach, Votorantim

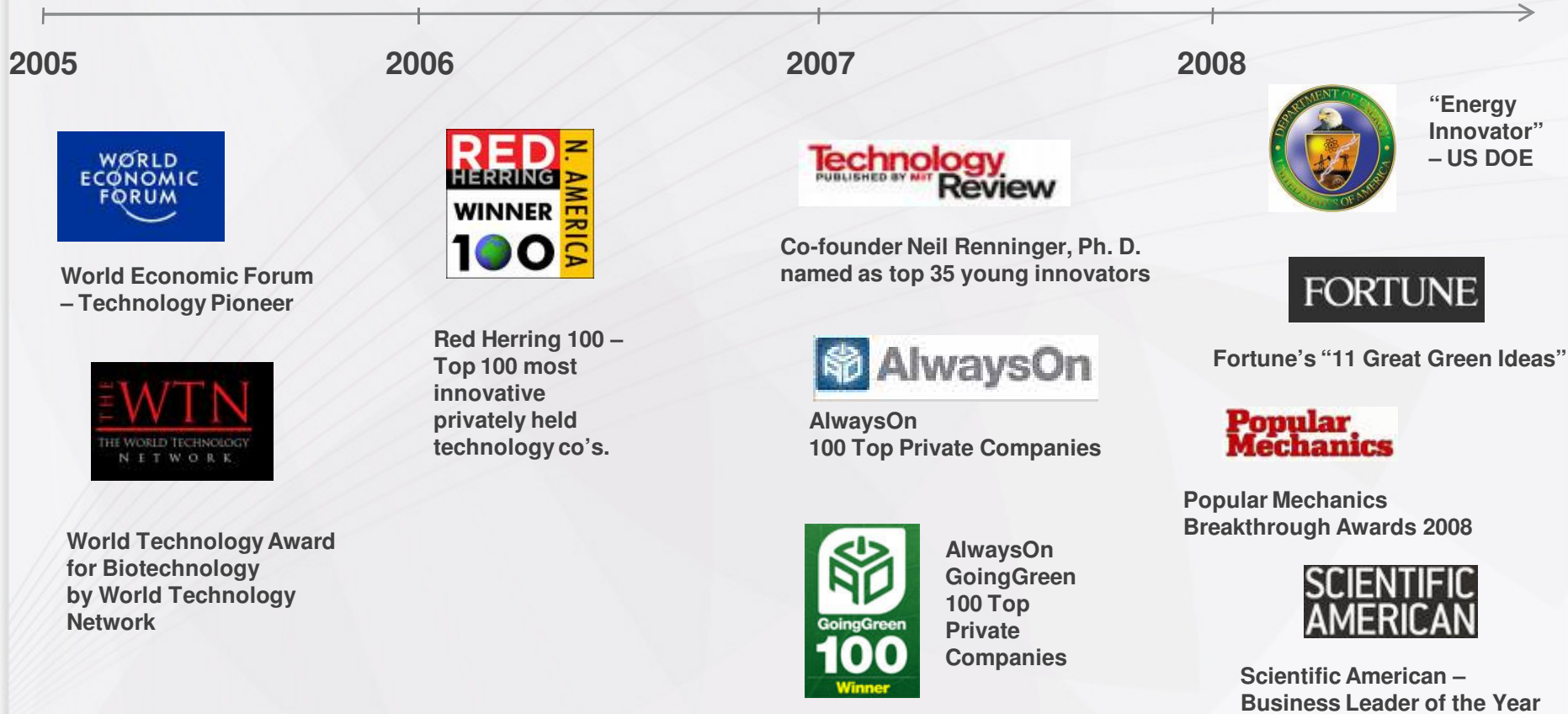
Management

Roel Collier, former Boston Consulting Group and Clean Energy Brazil

Jose Eduardo Patelli, former Votorantim

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Select awards



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