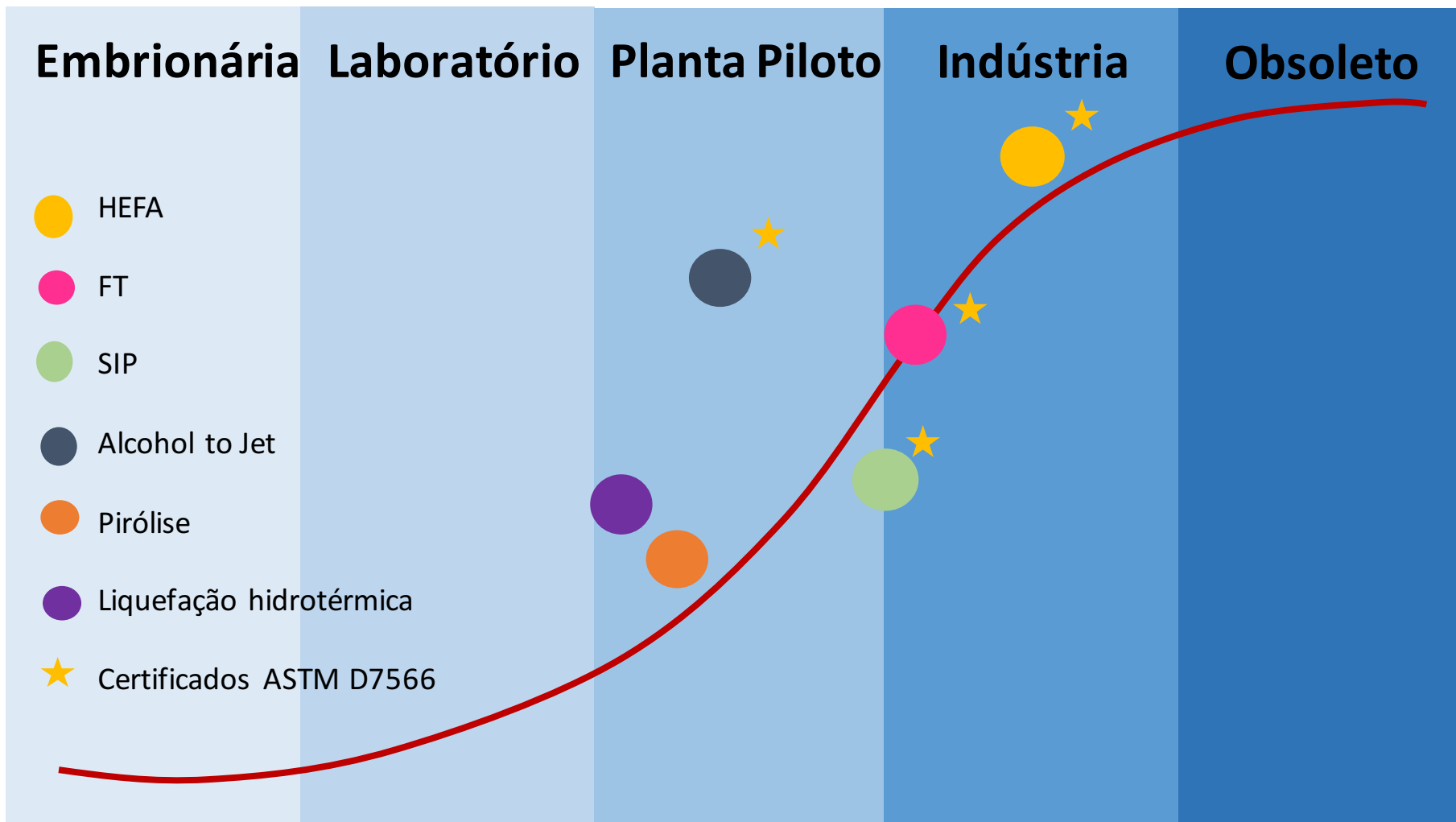


Potencialidades das Biomassas para Produção de Bioquerosene para aviação

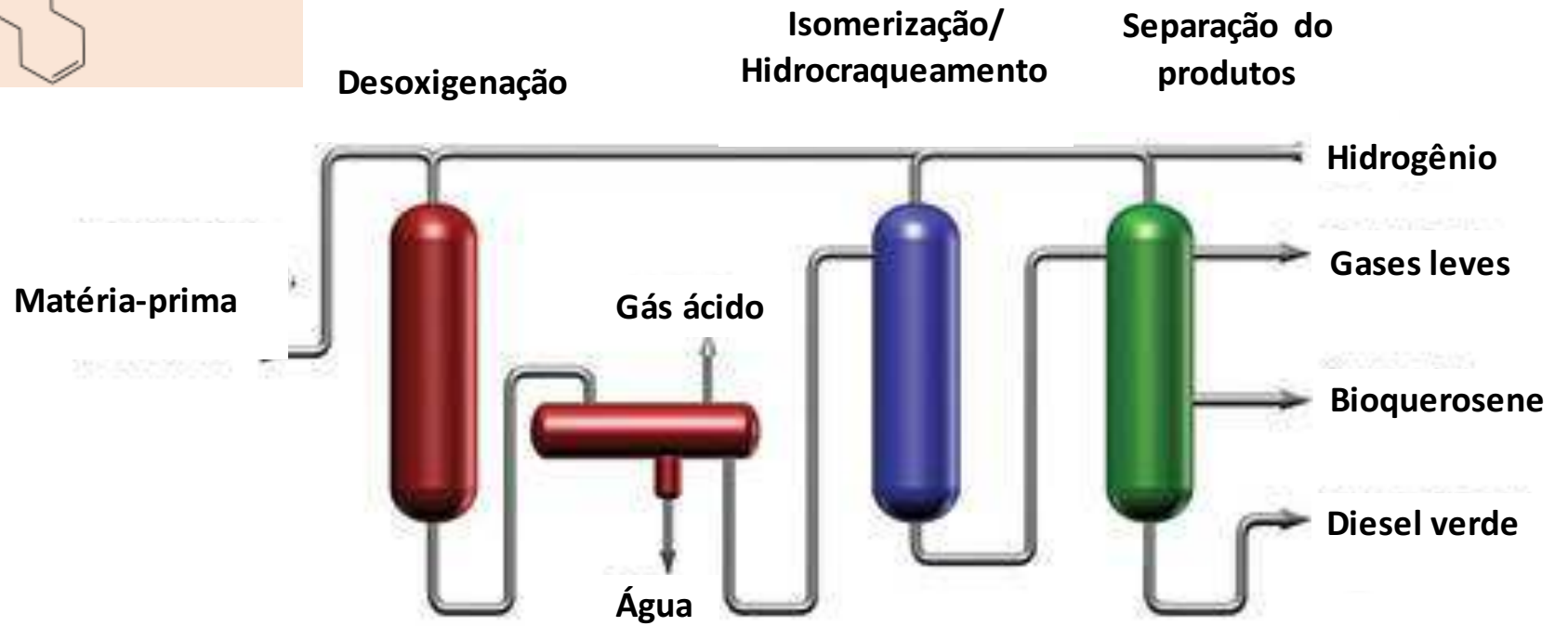
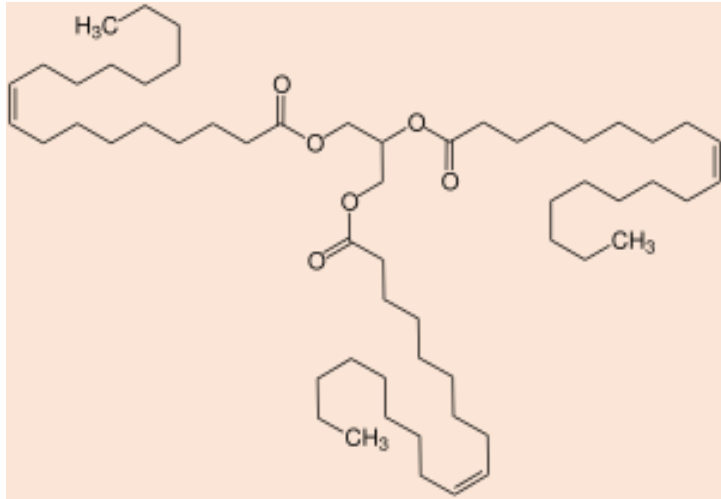
Nataly Albuquerque

07 de junho/2019

Curva de maturidade tecnológica das principais rotas de produção de biocombustíveis para aviação



Fonte: Vásquez, 2017 (adaptado)



Fonte: UOP Renewable, 2019

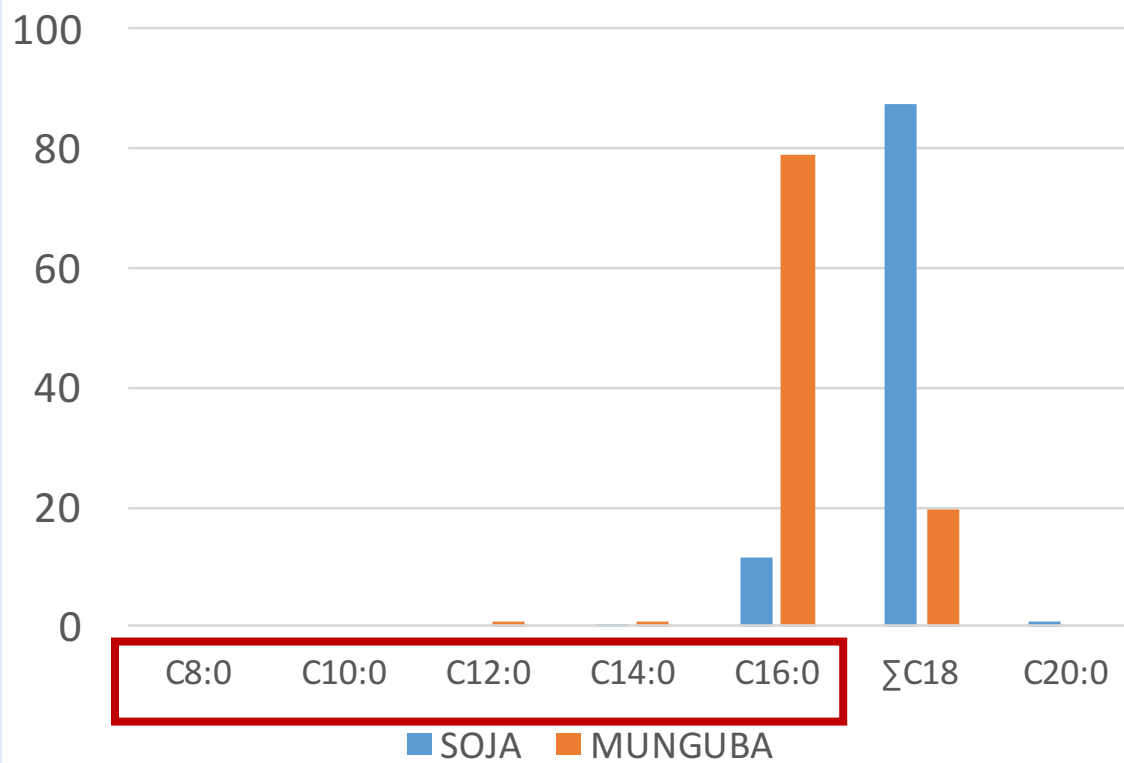
Oleaginosas



Soja



Munguba



Oleaginosas



Macaúba



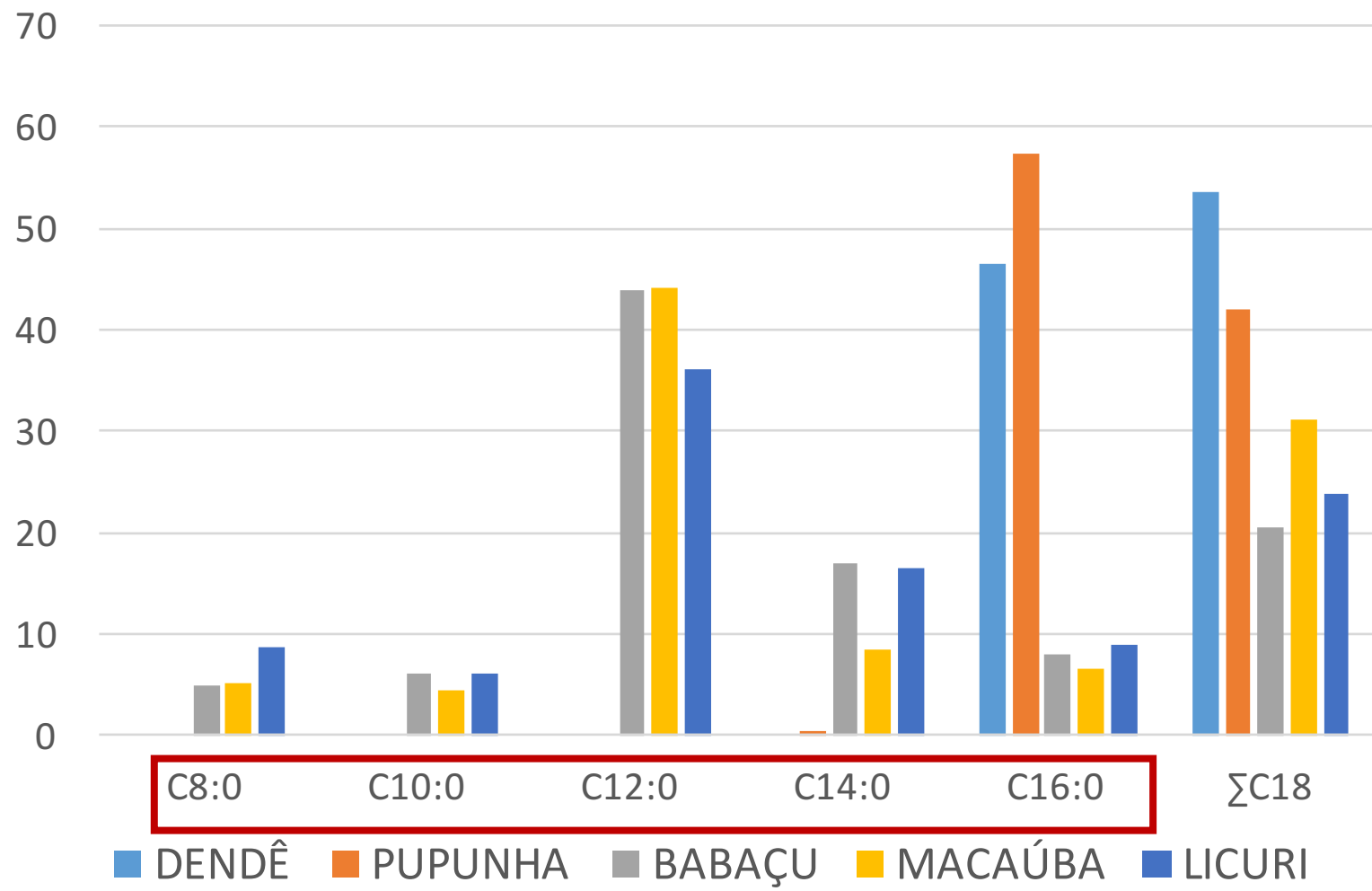
Licuri



Dendê



Pupunha



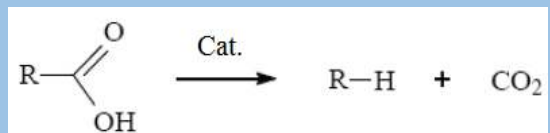


Licuri

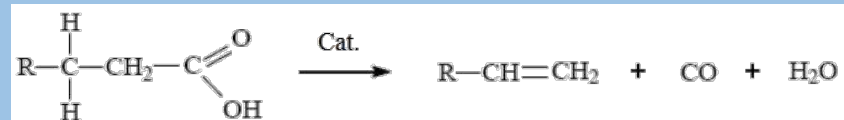
HC	Óleo	Biodiesel
C7	8.2	5.2
C9	5.6	4.6
C11	35.1	27.8
C13	16.2	16.6
C15	9.2	10.2
C17	25.7	35.6



Descarboxilação



Descarbonilação

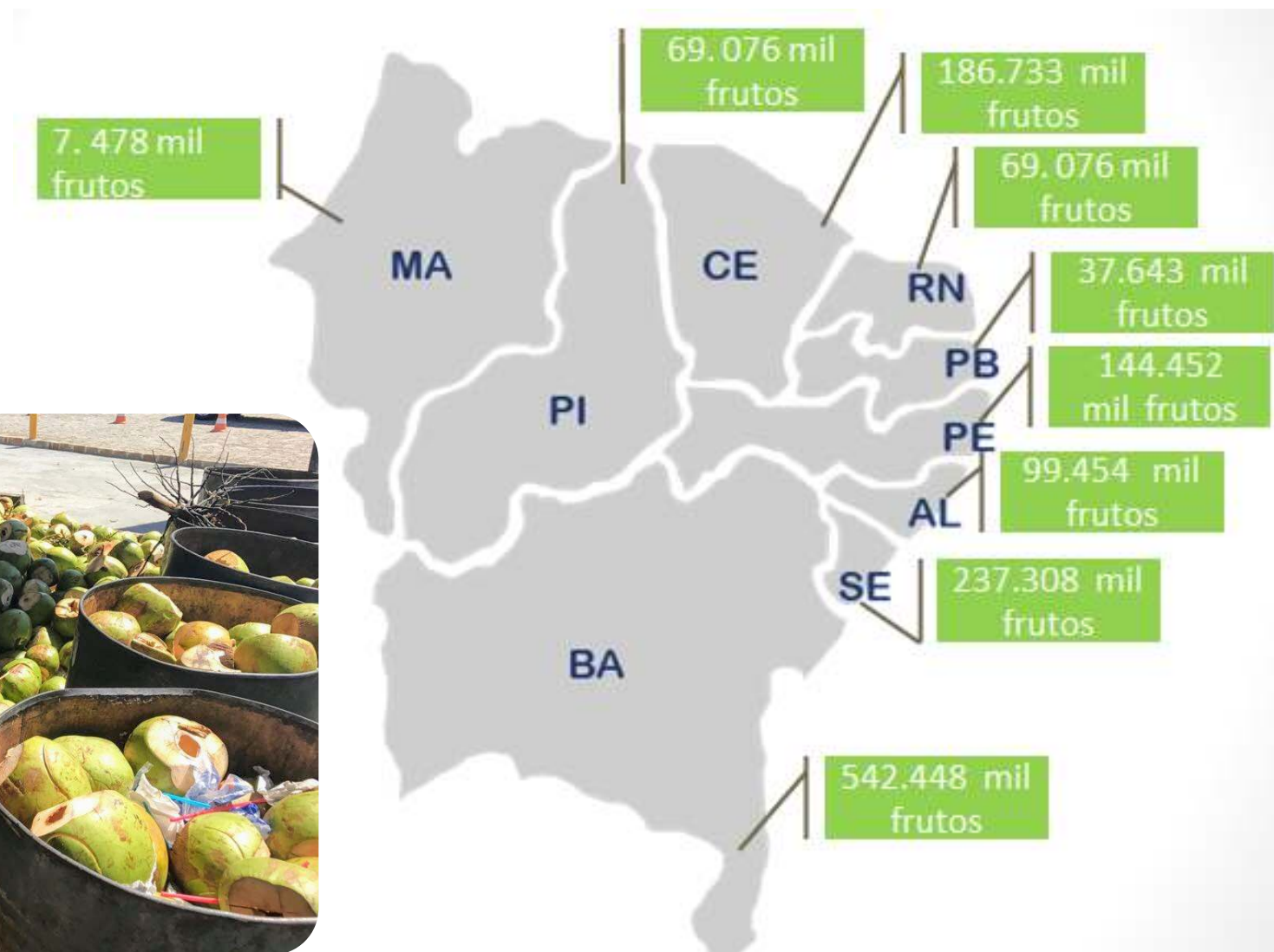


Algae Based Fuel Process



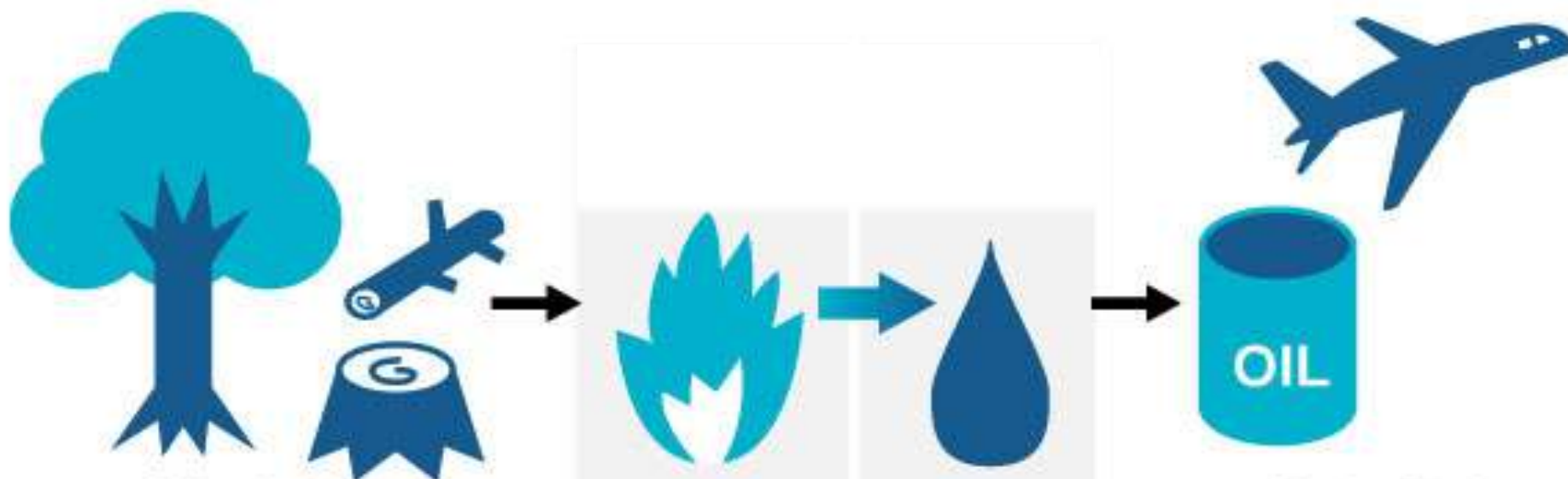
Fonte: Plant-factory

Coco verde



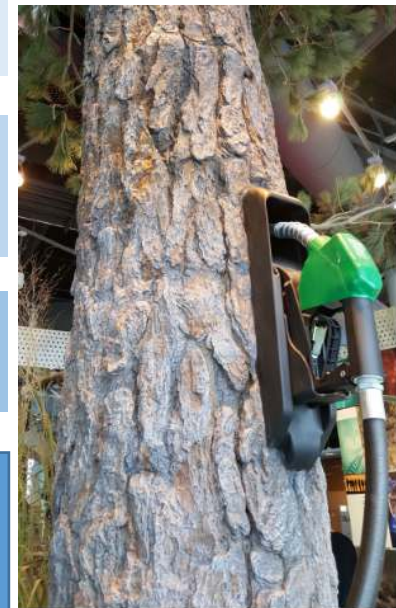
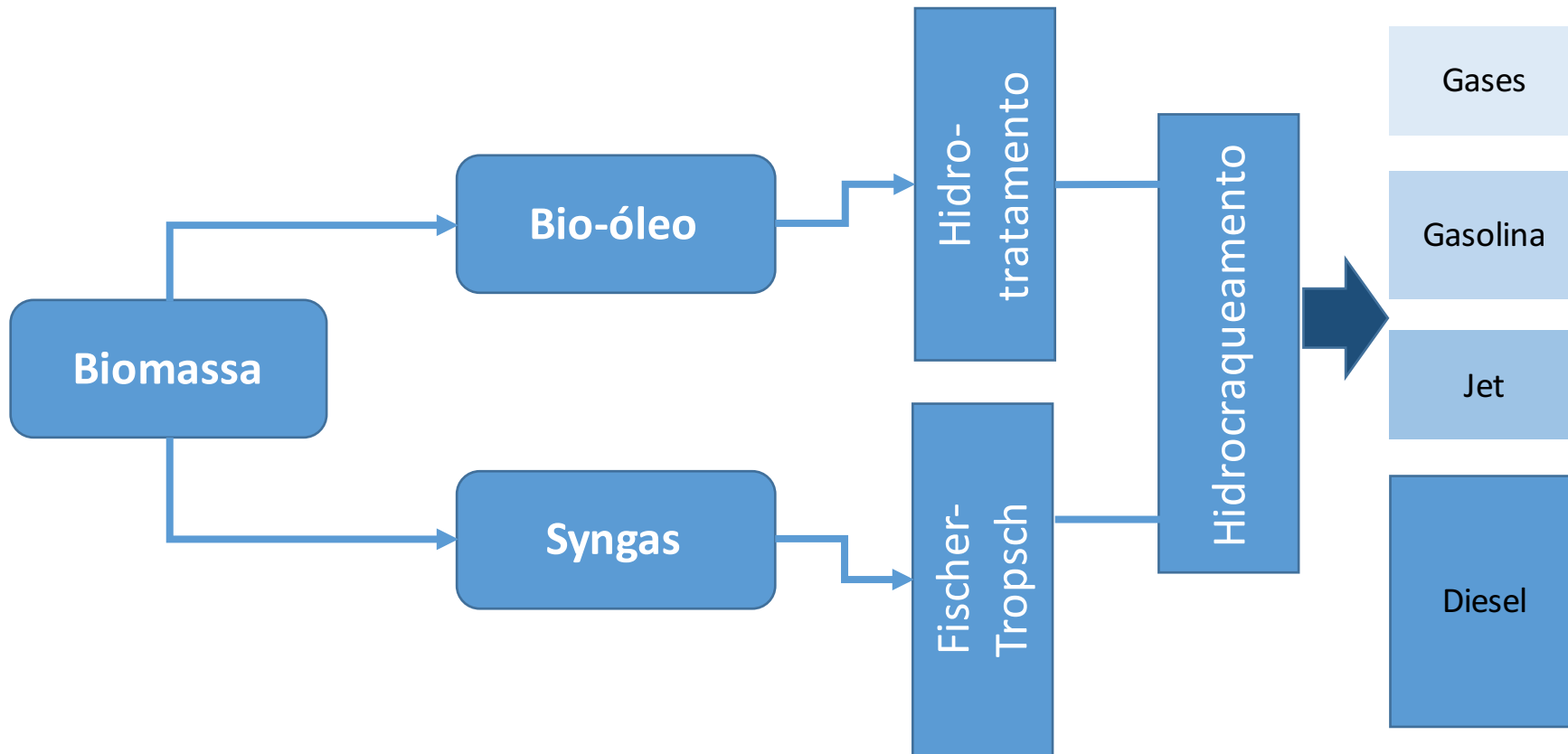
IBGE, 2017

Bioquerosene a partir de Biomassa

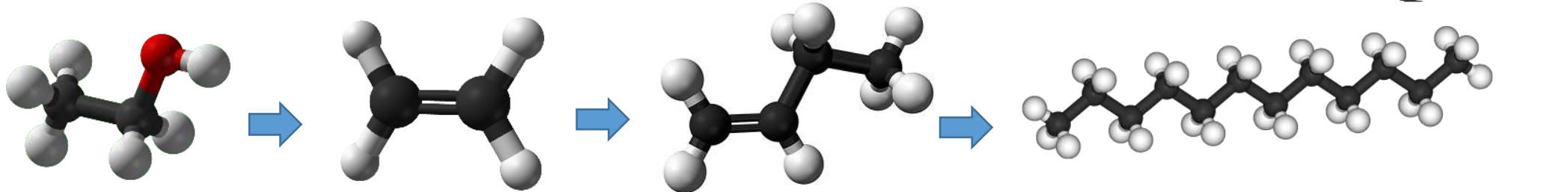


Fonte: The Asahi Shimbun

Esquema de Tecnologias de Conversão Termoquímicas



Alcohol to jet



Etanol

Etileno

Olefinas

Parafinas

Etanol

Desidratação

Oligomerização

Hidrogenação

Destilação



Gasolina,
Bioquerosene,
Diesel



Agradecimentos





Potencialidades das Biomassas para Produção de Bioquerosene



IDEP
UFPB

Nataly Albuquerque
Universidade Federal da Paraíba
Laboratório de Tecnologia de Biocombustíveis
natalyjp@gmail.com