

Not driving an EV just yet?

Lower your carbon footprint with what
you have now.

climate change
mitigation

solutions

pollution
control

energy
security



military
flexibility

economic
development

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BIOFUELS USA

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www.AdvancedBiofuelsUSA.org

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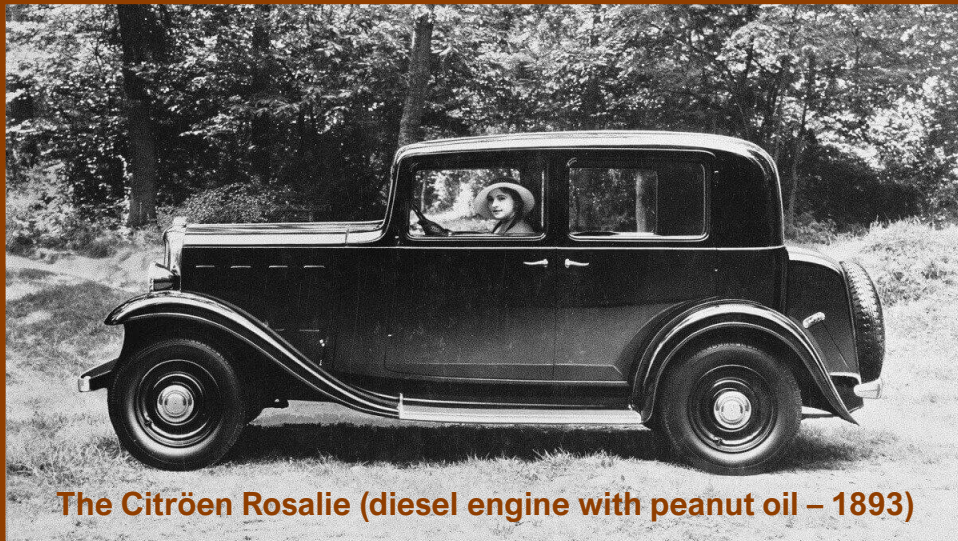
Presenter: Joanne Ivancic
Executive Director
Advanced Biofuels USA

Biofuels are not new

Ford Model T



spark-ignition engine
fueled with corn ethanol

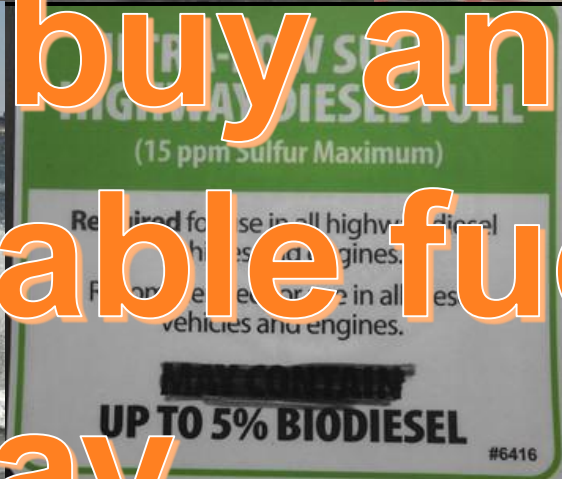
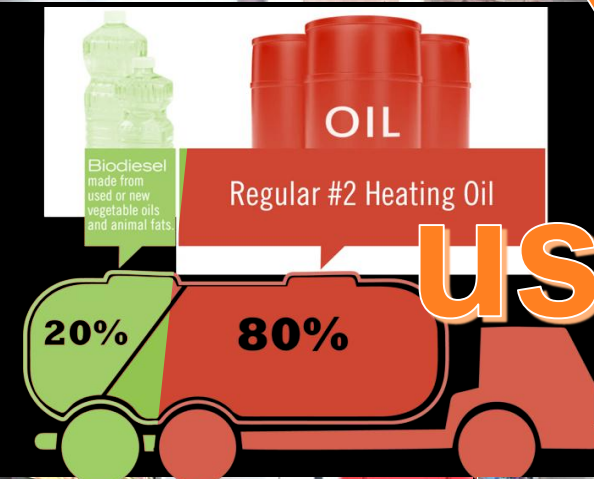


The Citroën Rosalie (diesel engine with peanut oil – 1893)





You can buy and use renewable fuels today.





Feedstock

Sugarcane



Cassava



Soybeans



Used cooking oil



Corn





Switchgrass



What else?

Algae



Willow



Sugar Beet



What else?





Recycled plastic



Leather tannery waste



What else?
Tires



Woody biomass



Cotton seeds & hulls



Solid & food waste

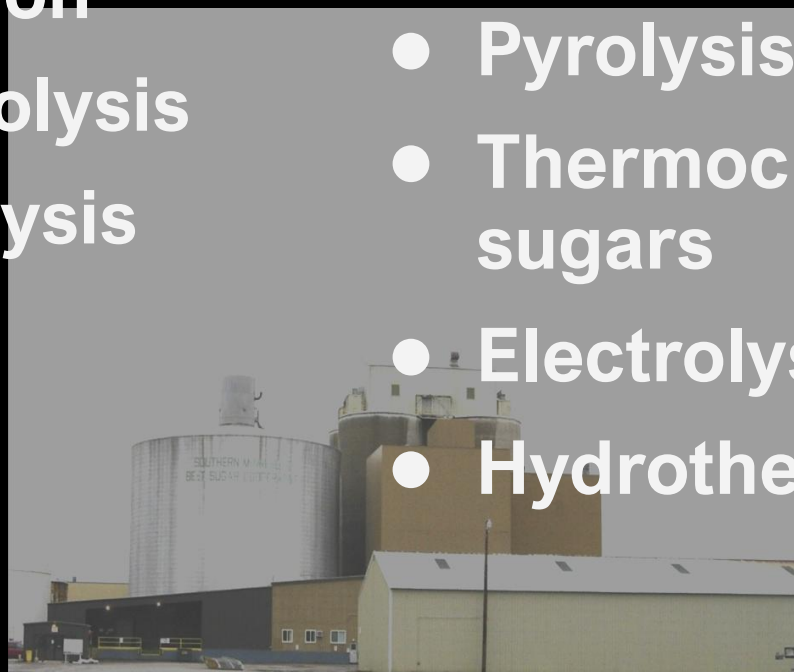
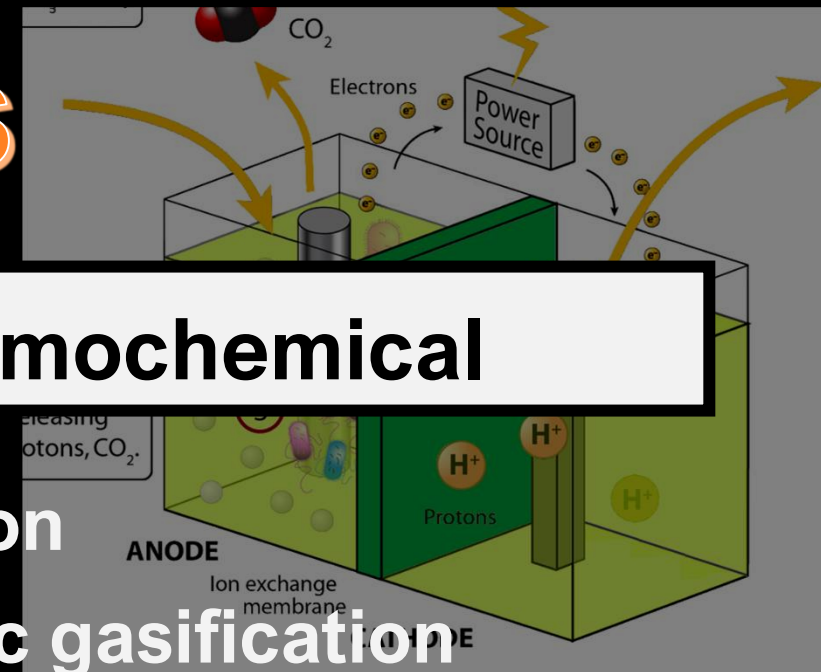
Processes

Biochemical

- Fermentation
- Transesterification
- Enzymatic Hydrolysis
- Enzymatic Catalysis
- Photosynthesis

Thermochemical

- Gasification
- Plasma arc gasification
- Pyrolysis/Fast Pyrolysis
- Thermochemical conversion of sugars
- Electrolysis
- Hydrothermal Liquefaction (HTL)



Logistics



Harvest

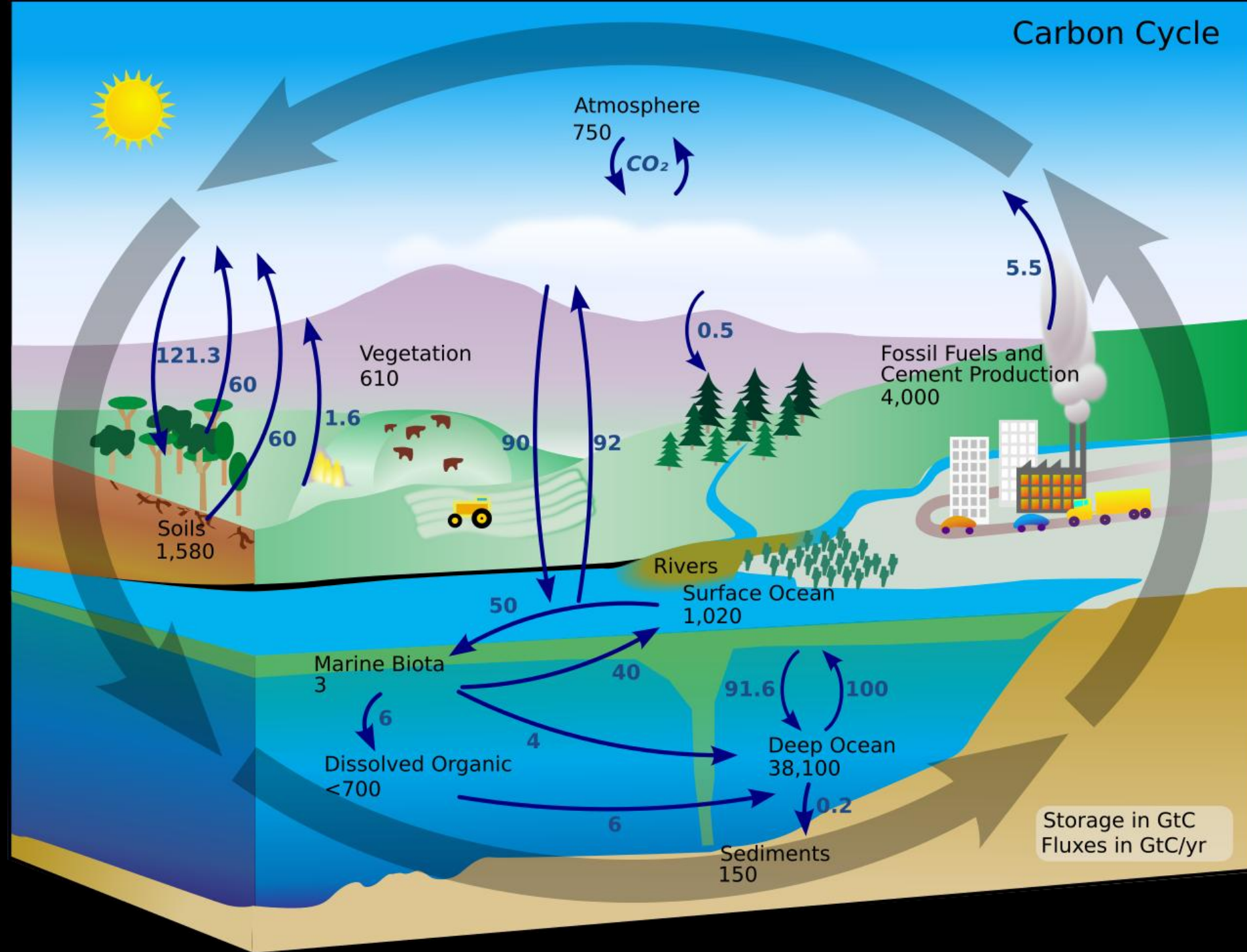


Transport



Storage

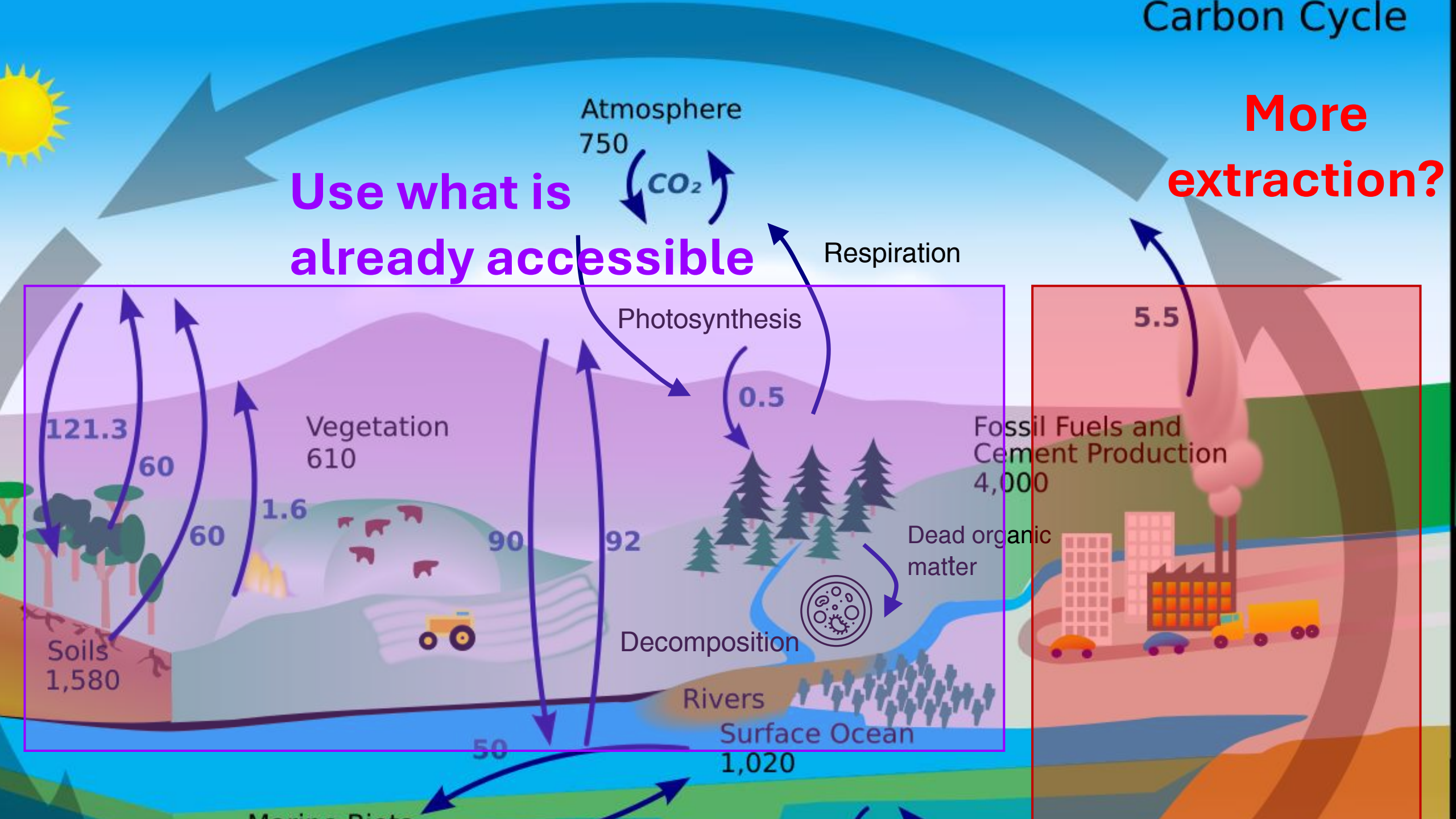
The Carbon Cycle



Carbon Cycle

**More
extraction?**

**Use what is
already accessible**

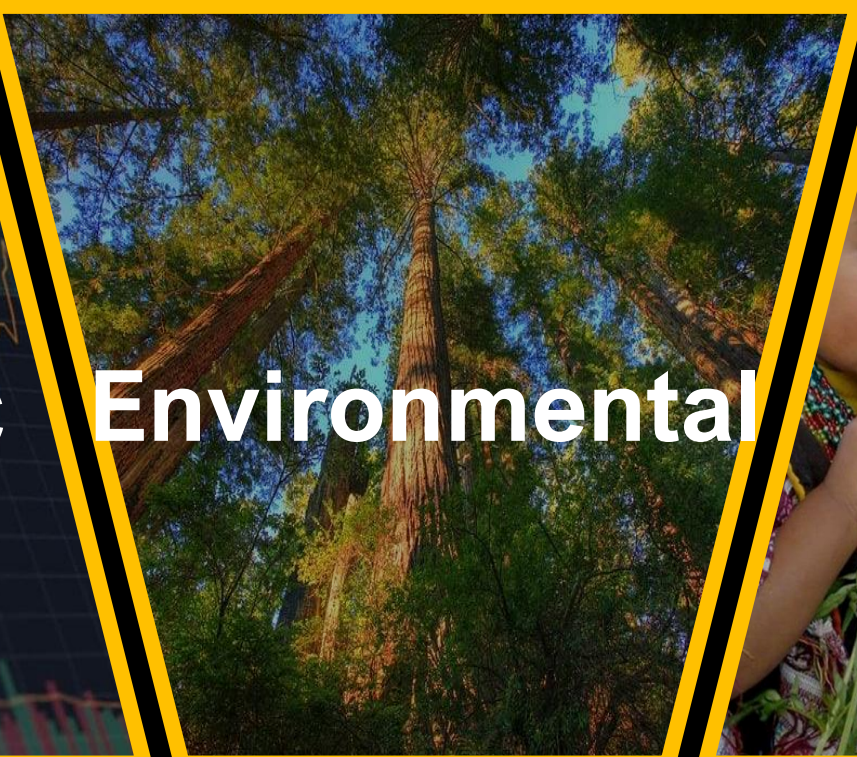


Principles of Sustainability



Economic

A line graph with multiple colored lines (green, yellow, red, blue) plotted on a dark background with a grid, representing economic data.



Environmental

A low-angle shot looking up at several tall, slender trees with green foliage against a clear blue sky, representing the environment.



Social

Two young children in traditional colorful clothing are sitting and holding yellow flowers. A small text credit "Foto: Lale Guendula" is visible in the lower right corner of the image.

Economic



Indonesia to Go Ahead with B50 Biodiesel Mix in 2026, Says Prabowo

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March 30, 2026

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by Stanley Widiyanto and Stefano Sulaiman (Reuters) Indonesia's President Prabowo Subianto said on Monday during an official visit to Japan that the Southeast Asian country will go ahead this year with its B50 palm oil-based biodiesel programme.

"We are going in a big way to biofuel," he said at a business forum ahead of his meeting with Japanese Prime Minister Sanae Takaichi.

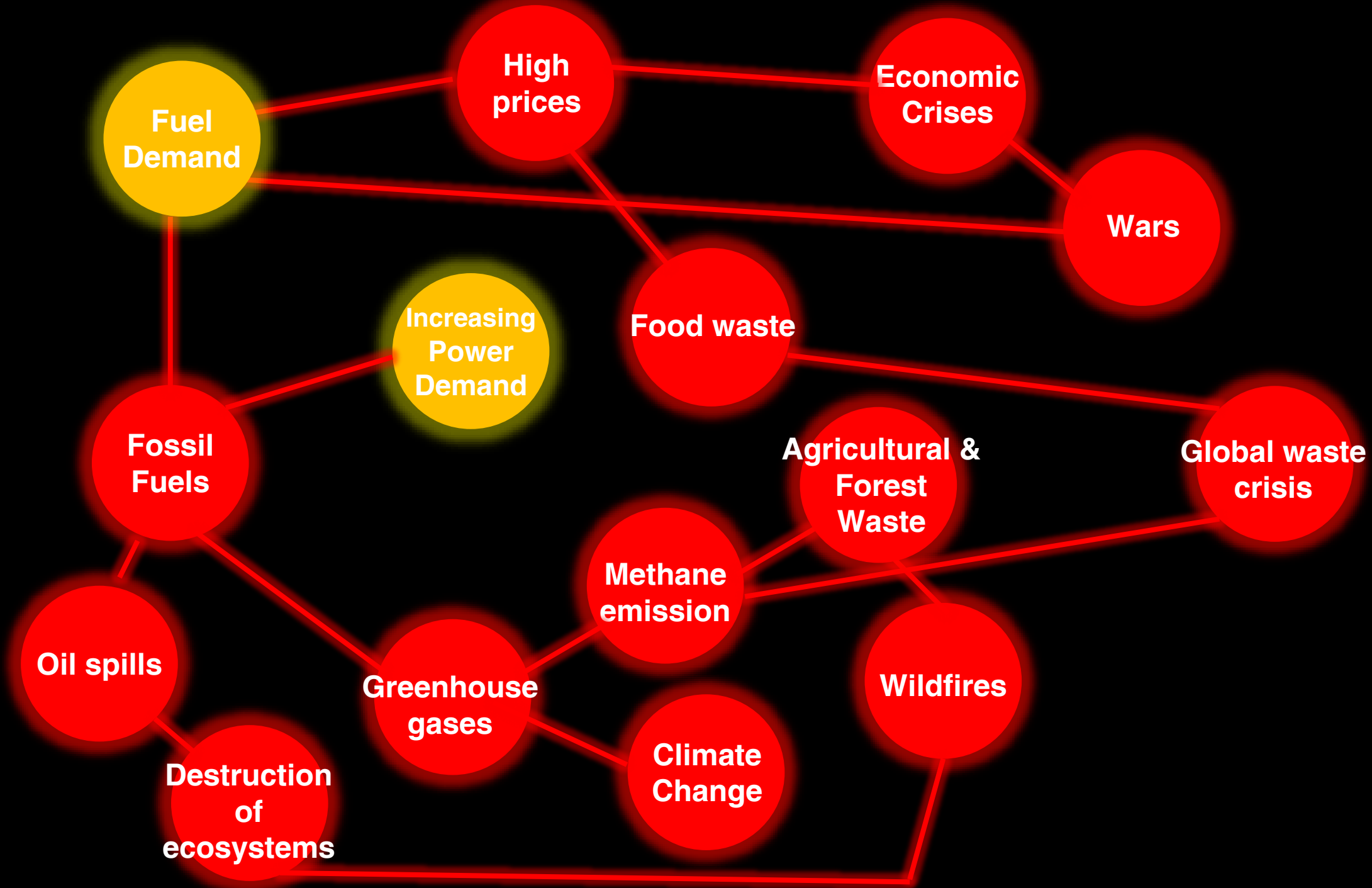
"We will produce this year diesel oil from palm oil and now we are increasing from 40% to 50%."

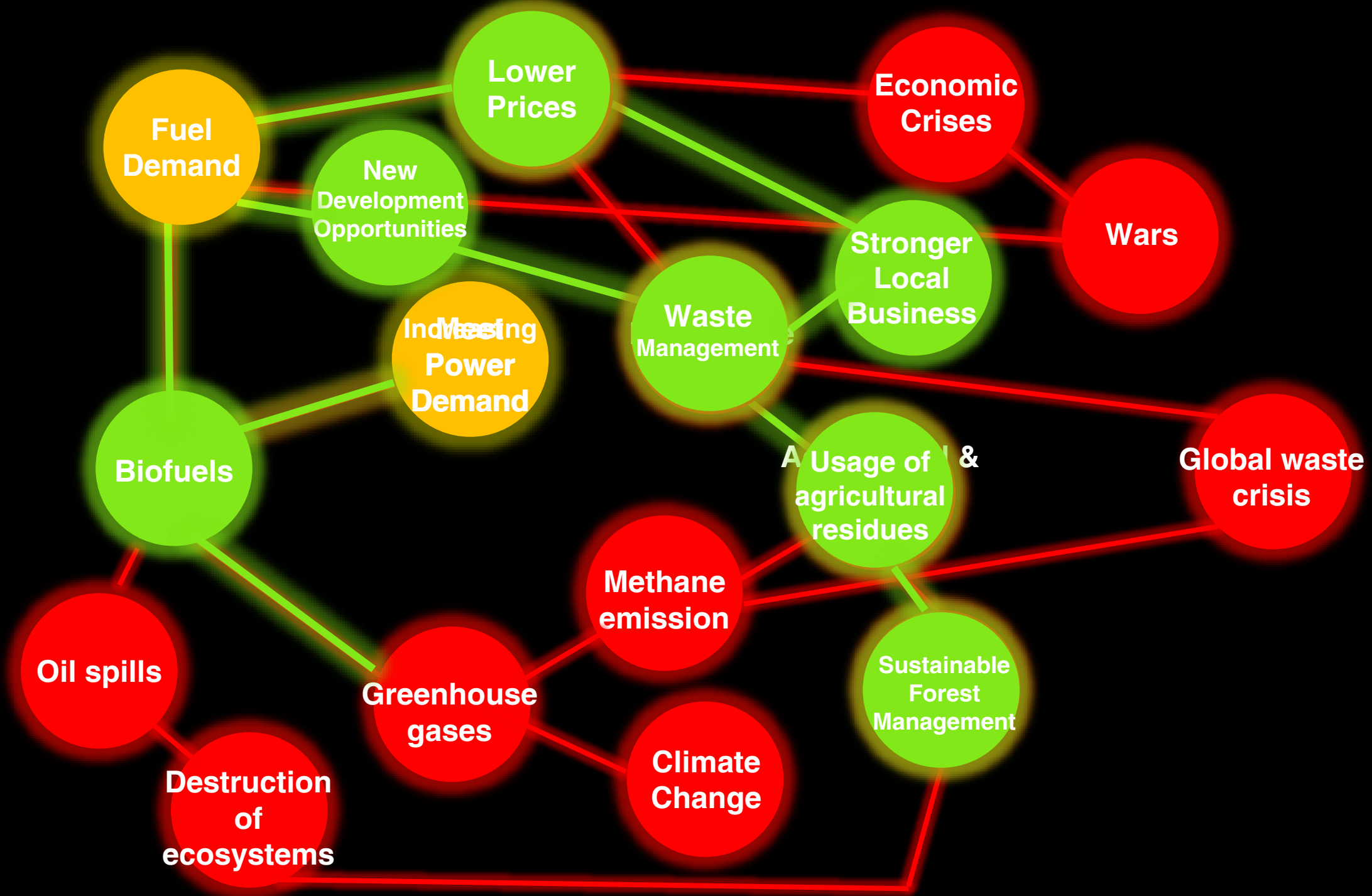
Social



Government Land ownership Transportation Infrastructure Education







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