

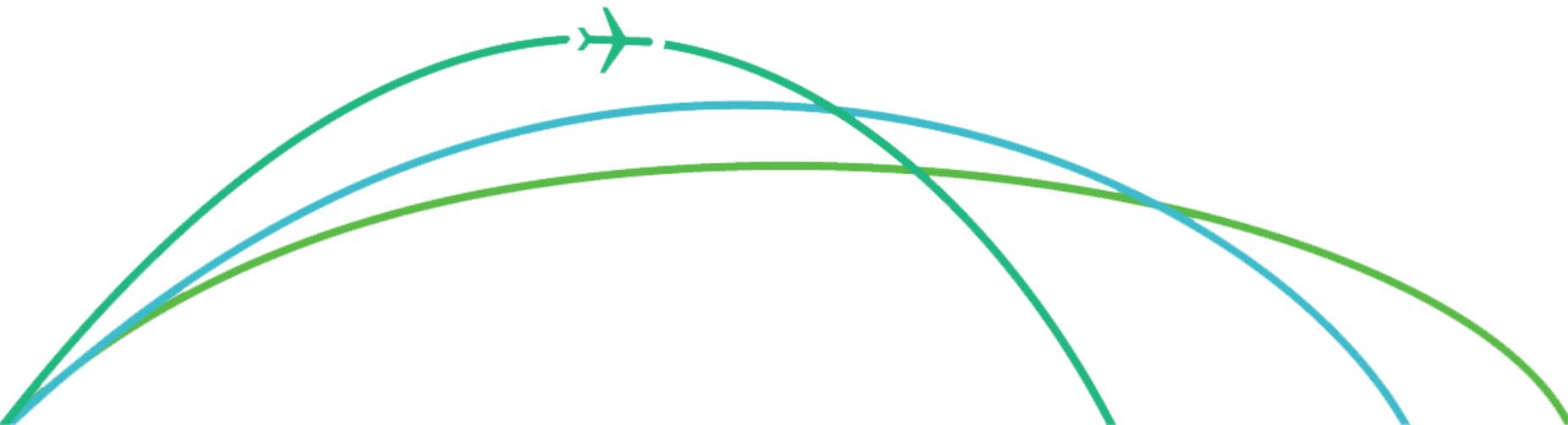


Green Aviation
Research & Development
Network

Groupement Aéronautique
de Recherche et Développement
en eNvironnement

Sustainable Air Travel, is it possible?

Kateryna Derkach



FINANCIAL PARTNER



Government of Canada
Networks of Centres
of Excellence

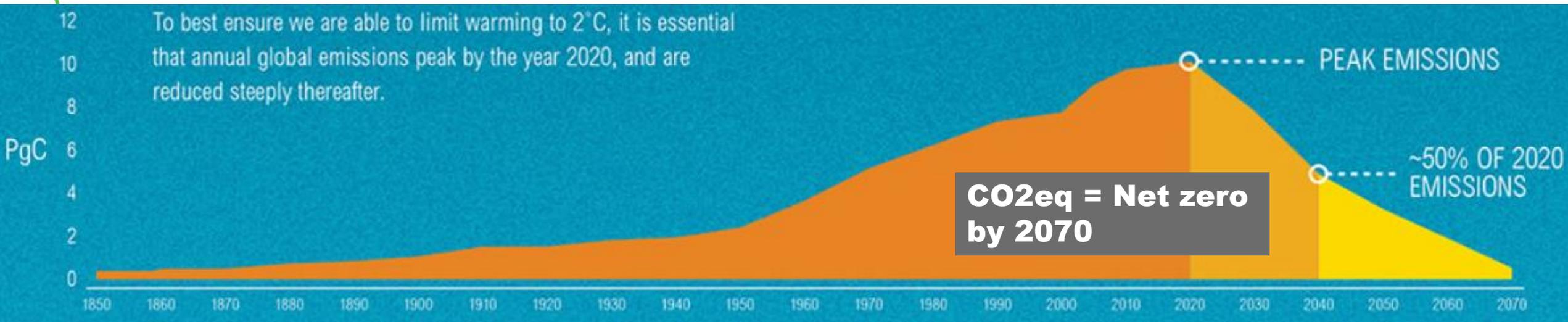
Gouvernement du Canada
Réseaux de centres
d'excellence

The context



Paris Agreement = 2°C

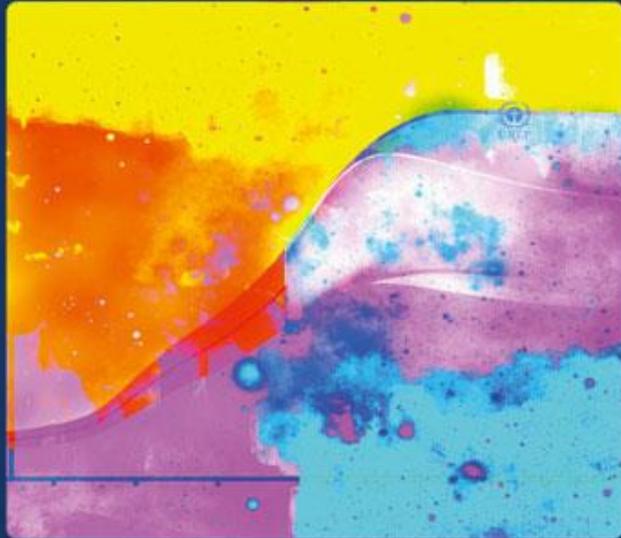
2015



IPCC Special Report = 1.5°C

2018

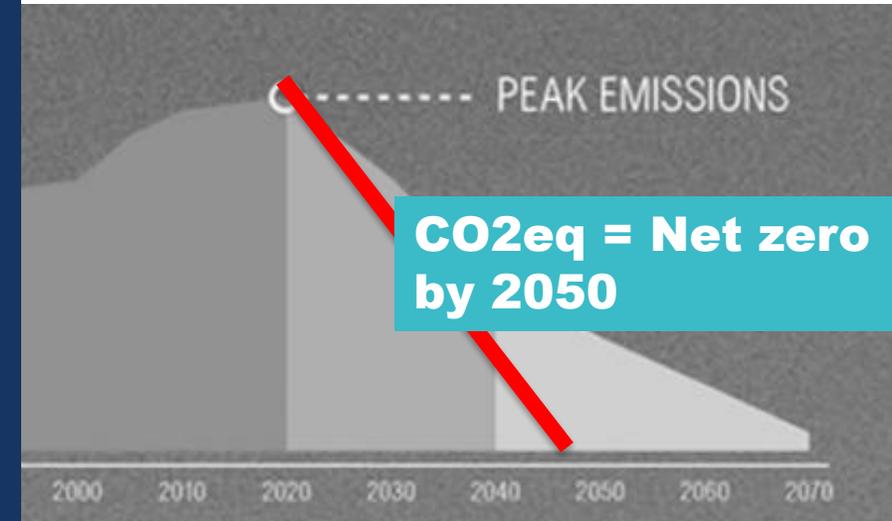
PgC
12
10
8
6
4
2
0
1850



ipcc
INTERGOVERNMENTAL PANEL ON climate change
WHO UNEP

Global Warming of 1.5 °C

An IPCC special report on the impacts of global warming of 1.5 °C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty.



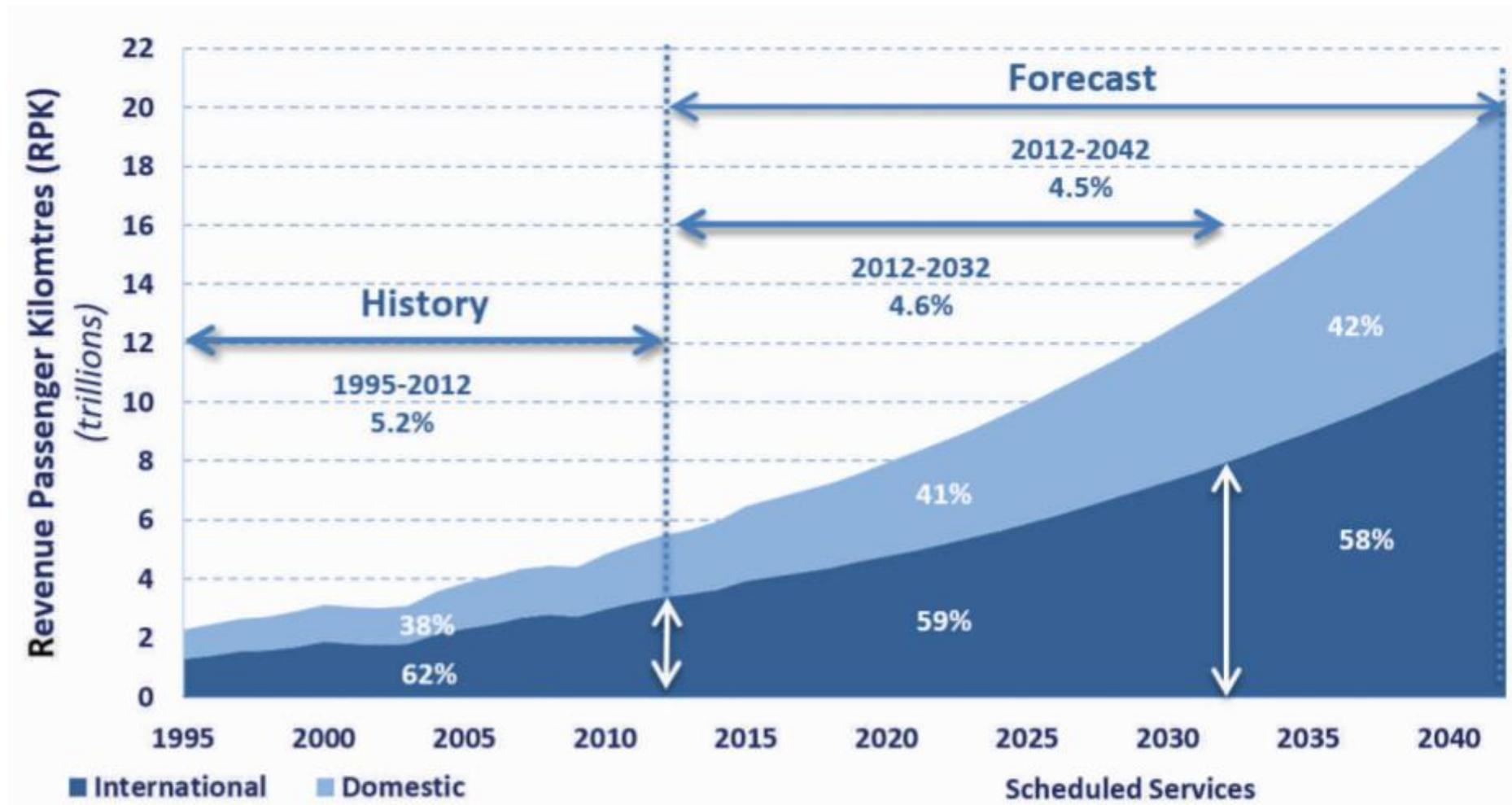
The problem



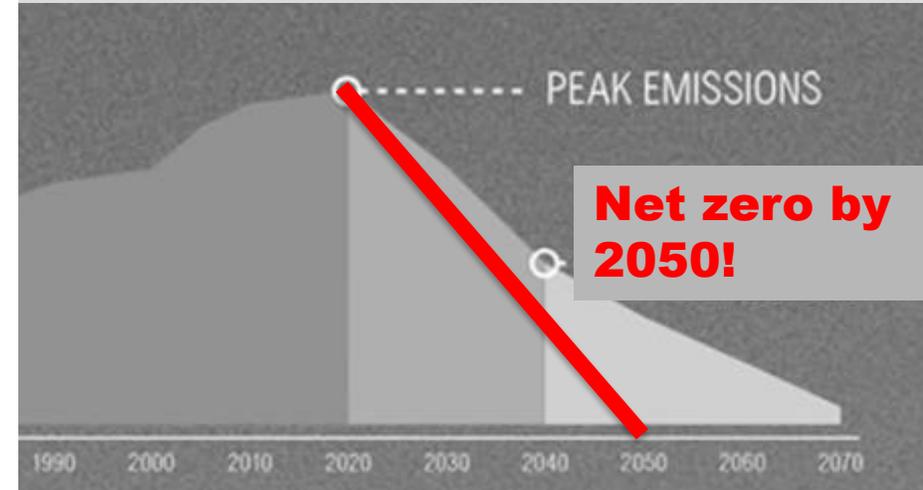
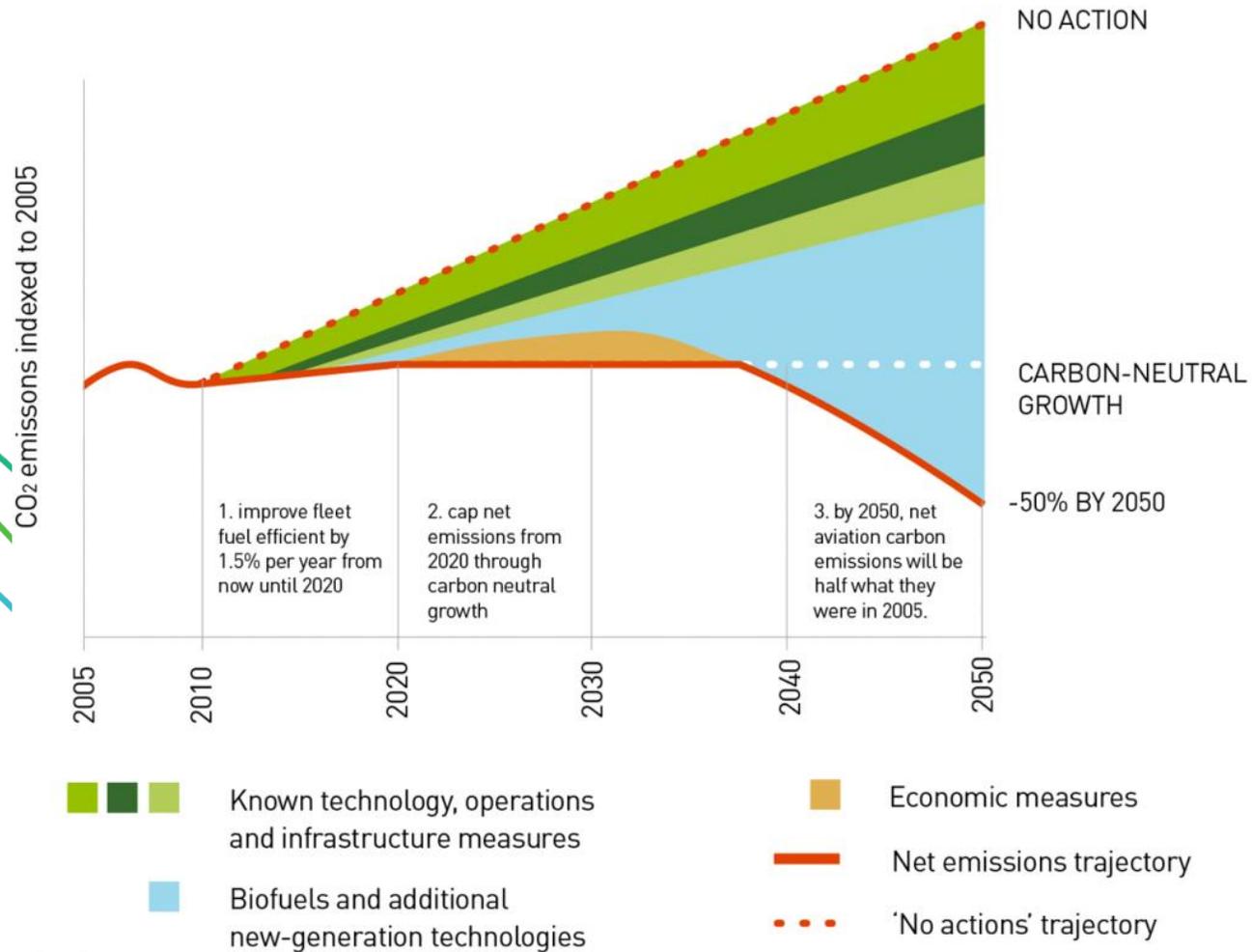
We love aviation so much!



Total passenger traffic: history and forecast



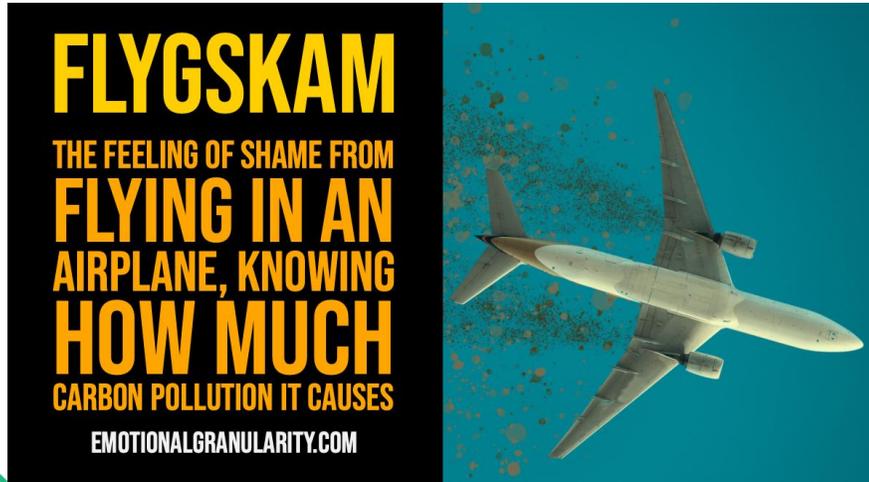
CO₂ reduction strategy



Potential solutions

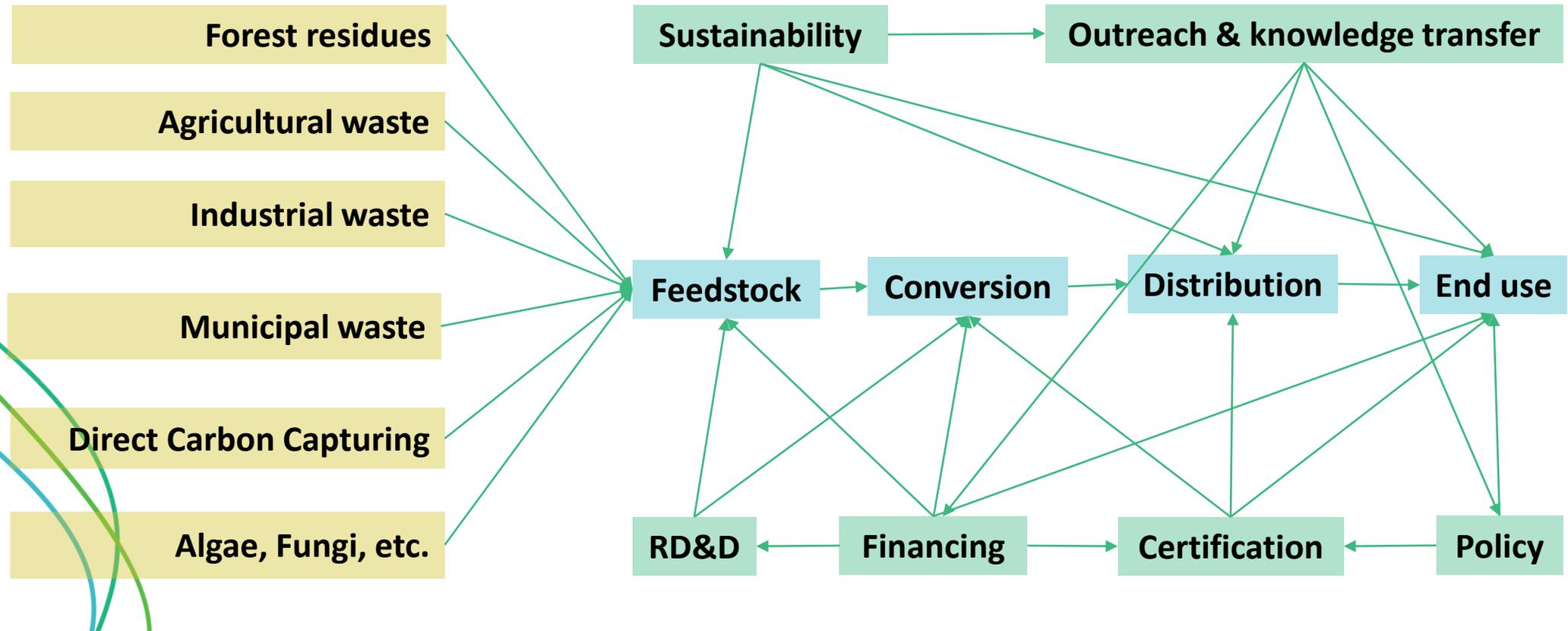


What are my options if I want to be “sustainable” ?



SAF

Holistic view



Important note:
Most of the industrial sectors are competing for the same feedstocks!

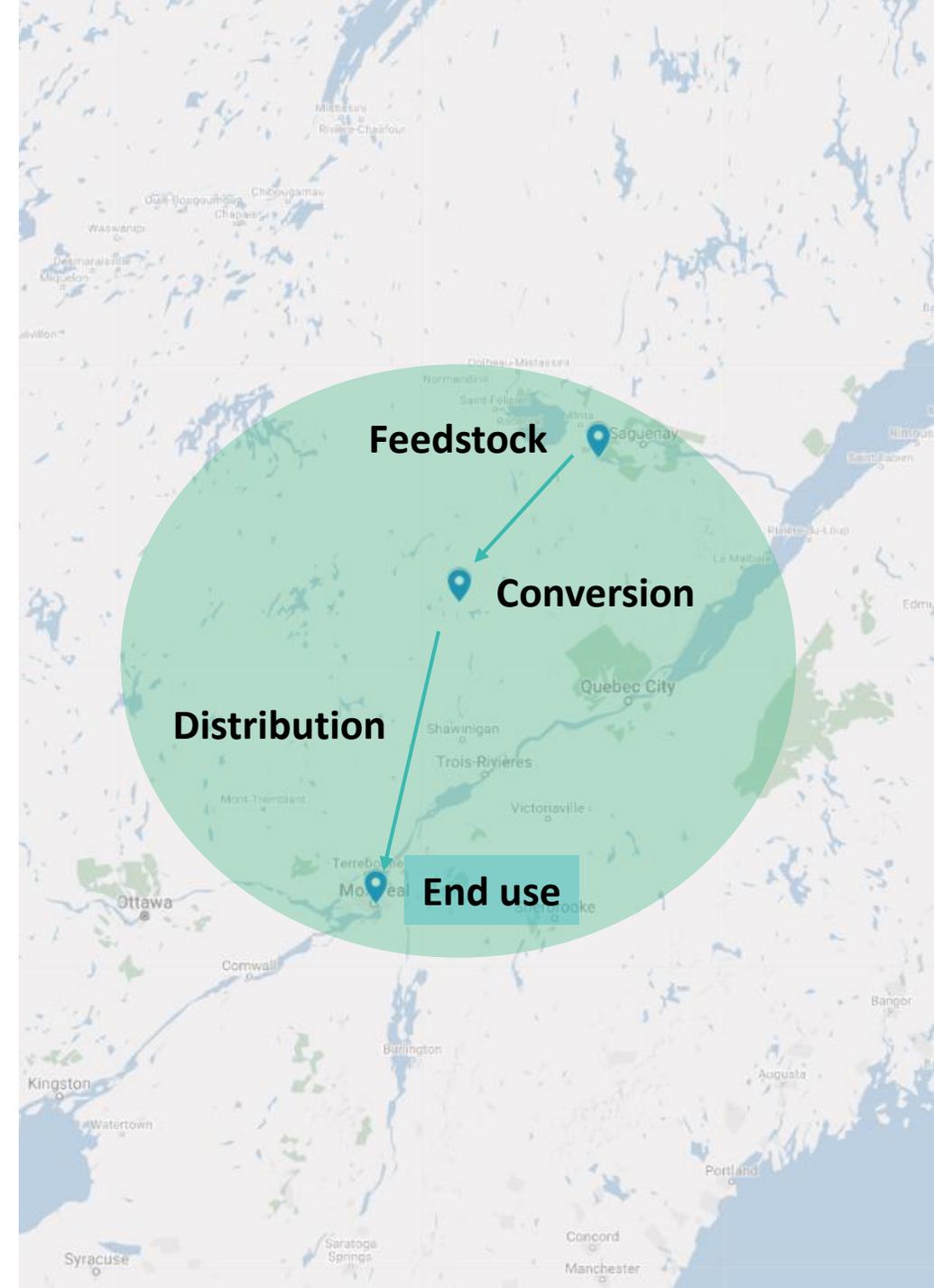
Biohub | Bioport

Local development

Bioport is a demand centre in the form of an airport that supplies all airlines with SAF by a dedicated local supply chain.

Advantages

- Reduction of the environmental footprint
- Local empowerment and economic growth
- Market growth and innovation stimulation
- Creation of direct benefits for employment
- Securing SAF supply and its price stability





Thank you! Merci!

Green Aviation Research & Development Network | GARDN.org
SAF Community | SAFcommunity.org

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