# AN URGENT NEED FOR A PARADIGM SHIFT IN POLICY MAKING

Ensuring sustainability and disaster mitigation in transport policies

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### What we know

#### What is about to happen?

Global surface temperature will continue to increase until at least the mid-century under all emissions scenarios

Many changes in the climate system become larger in direct relation to increasing global warming

Many changes due to past and future greenhouse gas emissions are irreversible for centuries to millennia

#### How to mitigate?

Limiting human-induced global warming by limiting cumulative CO2 emissions, along with strong reductions in **other greenhouse gas** emissions

Very low or low GHG emissions lead within years to discernible effects on greenhouse gas and aerosol concentrations

Very low and low GHG emissions would lead to substantially smaller changes in a range of CIDs

#### What we do not know

#### Aviation perspective:

- Weather extremes to affect operations
- Changing travelling habits to affect routes and destinations
- CO2 ≠ GHG

We need a pradigm shift to cope

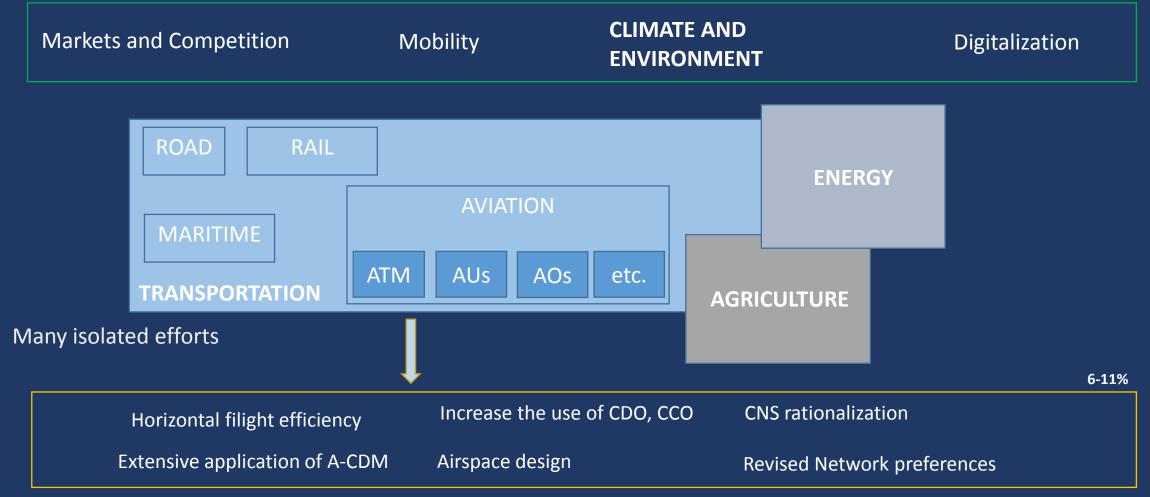
## How do we cope? - Aviation



#### STILL TO BE ADDRESSED

- Nice objectives without consequences
- Emission as a commodity a moral license to pollute?
- Non CO2 emissions and effects: weak policies
- Setting realistic targets to be really achieved
- Techno-optimism driving policies
- Missing responsibilities
- Interdependencies not acknowledged
- Relevant principles of EU law not observed

# High levels of complexity cannot be addressed by isolated solutions



## Addressing complexity

HOLISTIC APPROACH

**CLEAR VALUE CHOICES** 

CONSISTENCY

**FACT BASED** 

**CLEAR VALUES** 

**CLEAR OBJECTIVES** 

**CLEAR CHOICES** 

**CLEAR PRIORITIES** 

NO HARM PRINCIPLE

**EFFECTIVE** 

**CROSS SECTORAL** 

**RELIABLE** 

POLLUTER PAYS PRINCIPLE

**CLEAR PRIORITIES** 

TRANSPARENT

**FACT BASED** 

**HARMONISED** 

PRECAUTIONARY PRINCIPLE

**REALISTIC** 

**AVOID TECHNO-OPTIMISM** 

**MULTIMODAL** 

**ENFORCEABLE** 

NON-CO2

**CLEAR RESPONSIBILITIES** 

**EVIDENCE BASED** 

### Possible Solution

Main policy objective **Climate Neutrality** Realistic milestones • Setting the maximum amount of pollutants Restriction of emmitted emmissions Enforcement measures Process control Technology Tech. development Infrastructure **Available Instruments**  Taxes Demand reduction Econ measures Incentives **Direct dependency**  Certification Transparency and **Indirect dependency** • Information on environmental performance sharing of information Data collection/analysis **Cannot be compromised** Network building and joint problem solving

## Thank you for your attention!