

# Low emission development as a long term strategy of the European Union

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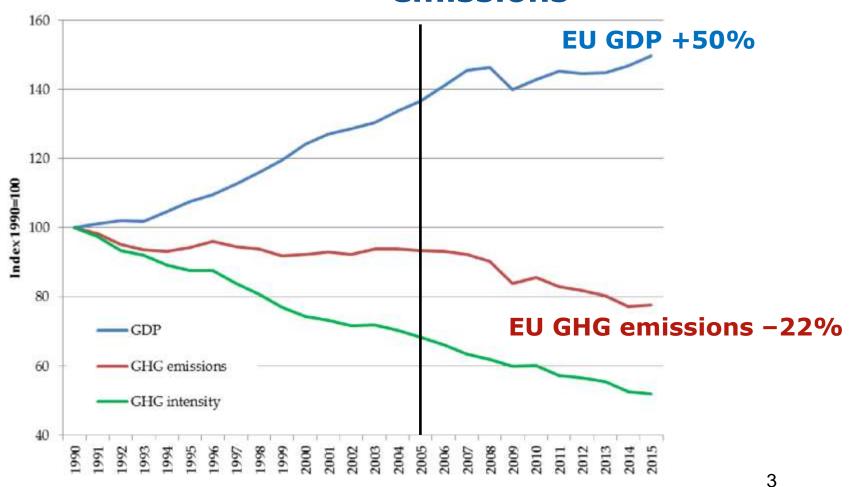
### **Outline**

- 1. A long-term strategy
- 2. Low emission development Next milestones 2030
  - Four pillars of EU climate change policy
  - Energy policy
  - Mobility policy
  - Other policy areas
- 3. Outlook





# Decoupling economic growth from greenhouse gas emissions





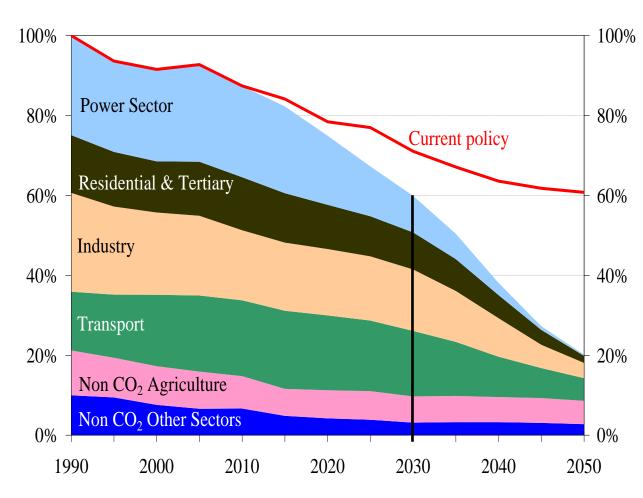
### **2050 Low Emission Roadmap**

# 80% domestic reduction in 2050 is feasible:

- With currently available technologies,
- With behavioural change only induced through prices
- If all economic sectors contribute to a varying degree & pace.

# **Efficient pathway and milestones:**

- -25% in 2020
- -40% in 2030
- -60% in 2040





# Three pillars of EU climate policy reducing greenhouse gas emissions until 2030

**Emissions trading** 

**-43** %

Including: Power/Energy Sector and Industry, Aviation



Non-emissions trading -30 %

**Effort sharing** 

-30 %

Including: road transport, buildings, waste, agriculture non CO2 Full flexibility

> Max 280 MtCO2eq

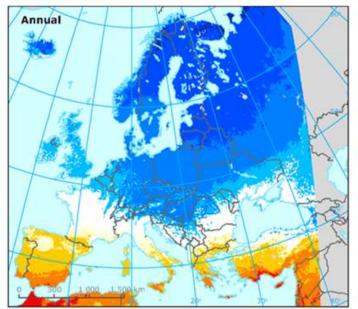
Land use, land use change, forestry "No-Debit"

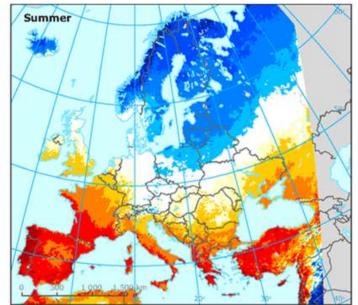


# Fourth pillar of EU climate policy adapting to the adverse effects of climate change

Projected changes in mean annual and summer precipitation (%) in the period 2071-2100 compared to the baseline period 1971-2000

Annual Summer





Projected change in annual and summer precipitation (%)

Source: EURO-CORDEX (Jacob, et al., 2014)



# Accompanying EU energy policies until 2030

**Annual State of the Energy Union** 

February 2016: Sustainable energy security package

November 2016: Clean energy for all Europeans package







#### **Energy Efficiency**

(Energy Efficiency Directive, European Performance of Buildings Directive)

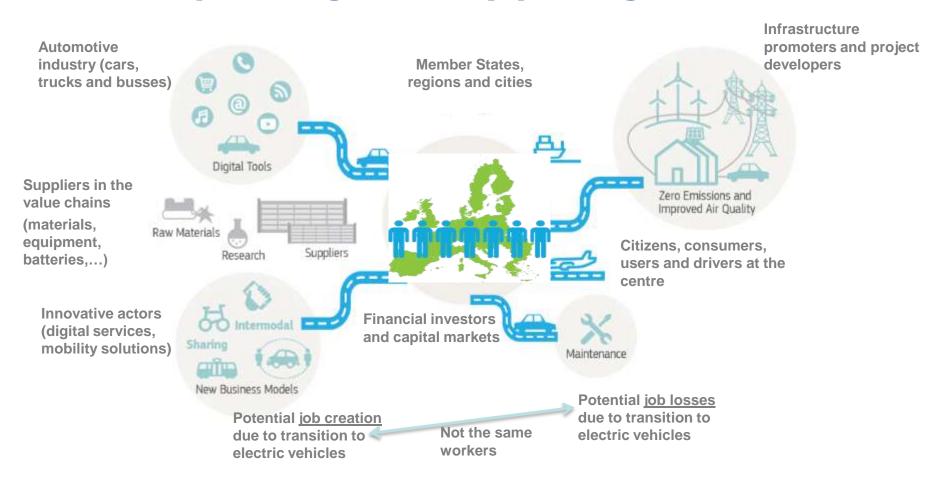


# **Energy Union Governance**

(Governance Regulation)

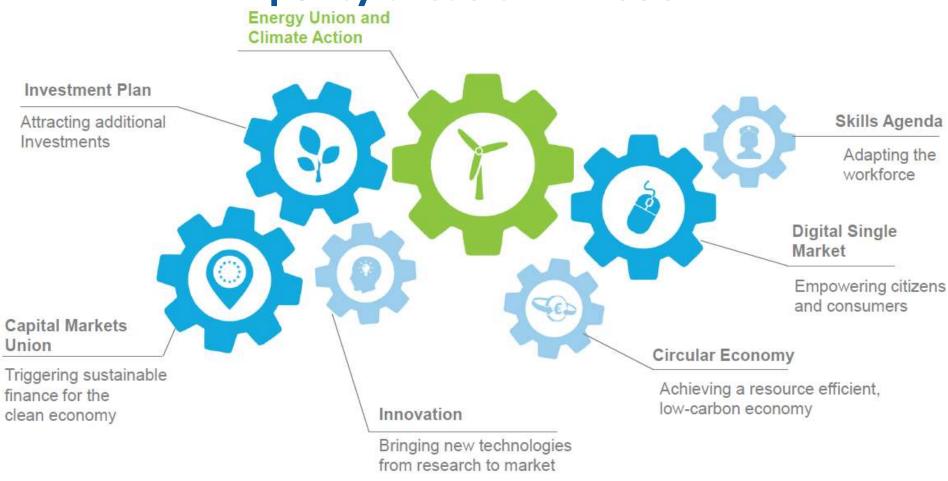


# The upcoming mobility package until 2030





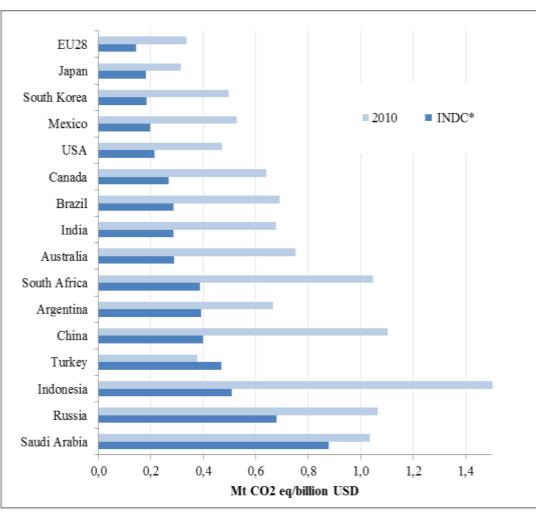
# Integrating climate and energy objectives into all policy areas until 2030





### Outlook: EU 2030

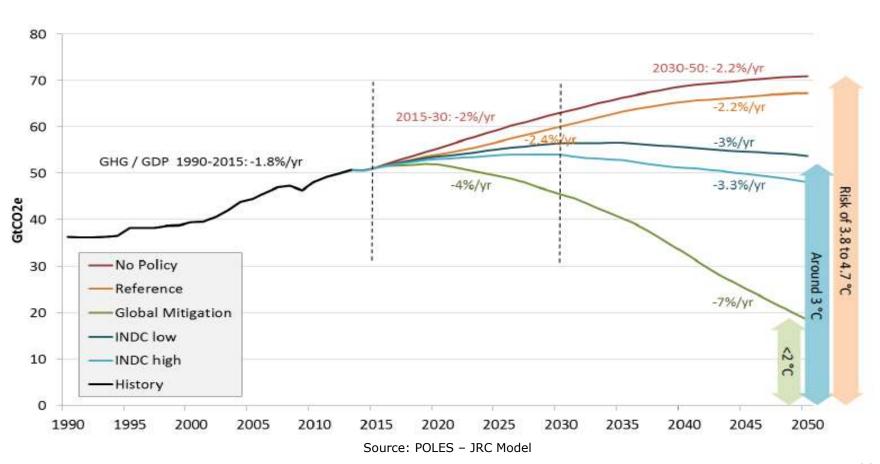
EU is set to become the most greenhouse gas efficient economy in the G20



Source: The emissions Gap Report 2016-2030 trends and ambition. UNEP, November 2016.



# **Outlook: International job unfinished**





# Thank you!

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