

## MY2050 IN BELGIUM

#### WORKSHOP CLIMATE EDUCATION, AWARENESS & BEHAVIOUR

10/02/2020

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TOWARDS A LOW CARBON SOCIETY





**Dutch Research Institute For Transitions** 

fung

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#### **New approaches - Transition management**

#### **Participative Energy Modeling**

# Low carbon pathways

#### My2050 in Belgium





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Source: Belgium OPEERA model (Climact, VITO)

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#### Set of levers with 4 ambition levels

Level 1	Level 2	Level 3	Level 4
<ul> <li>Current legal obligations</li> <li>No additional effort</li> <li>« Reference scenario »</li> </ul>	<ul> <li>Moderate effort relatively easily achievable according to the majority of experts</li> </ul>	<ul> <li>Significant effort requiring large changes, in terms of behaviour or investment requirements</li> </ul>	<ul> <li>Maximum technical potential based on technical or physical constraints</li> </ul>
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	Domestic passenger transport den	nand
Level 1	<ul> <li>Transport demand per person increases by ~20%;</li> <li>Occupation levels of cars decrease by ~5%;</li> <li>Occupation levels of buses and trains increase by ~10%</li> </ul>	
Level 4	<ul> <li>Transport demand per person <u>decreases</u> by ~20%;</li> <li>Occupation levels of cars increase by ~15%;</li> <li>Occupation levels of buses and trains increase by ~50% and ~33% resp.</li> </ul>	
	New buildings compactness	
Level 1	An important share of the people tend to live & work in <b>suburban to rural areas</b> . <b>Decreasing</b> proportion of flats compared to 2010 <b>up to 40%</b> .	
Level 4	An important share of the people tend to live & work in urban areas, resulting in <b>more urbanisation</b> . <b>Increase</b> in the share of flats in the total of new houses <b>up to 77%</b> .	

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	Number of animals		
Level 1	With an increasing population and similar diets, <b>increase in the number of animals by 2% in 2050</b> compared to 2010 (~43 mio animals).		
Level 4	Changes in the diets lead to a <b>decrease</b> in the number of animals by 43% in 2050 compared to 2010 (~ 24 mio animals).	Based on national food plan recommendations	

#### **Biomass imports**

Level 1	Gradual increase of the import level to <b>10</b> <b>TWh/year</b> in 2020 and then stable from there to 2050 (2/3 solid and 1/3 liquid).	
Level 4	Gradual increase of the import level to 20 TWh/year in 2020 and then further increase to <b>60 TWh in 2050</b> (2/3 solid and 1/3 liquid).	Based on estimations of world potential of sustainable biomass (per capita allocation)
		www.climatechange.be



#### An example of a behavioral scenario



#### www.my2050.be

#### Immediate calculation of impacts

#### **My scenario - results in a glimpse**



This graph shows the emissions and the emission reductions in 2050 as a result of your scenario, with respect to the level in 1990. As a comparison, you also see the emissions and the emission reductions in the reference scenario (in which all levers are set at level 1).





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#### Comparative analysis of your scenario



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# DISSEMINATION & COMMUNICATION

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#### VIA 'CLIMATE COACHES' (2017)

- As change makers
- 2 hour workshop in class with the use of My2050 web tool (elearning tool)
- Target group:
  - □ secondary schools (students between 16-18 yrs)
  - 'teach the teacher'
- 'Young Professionals' :
  - sound environmental knowledge
  - □ strong pedagogical & communication skills
- Intensive training:
  - □ climate science & climate policy at various levels
  - webtool and its use in class





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## **STRENGTHS**



 'My2050' web tool in combination with 'Climate Coaches' :



- □ Stimulate a societal 'informed' debate
- □ 'No size fits all': modular
- □ Key 'take home' messages
- Values and norms
- Empowerment
- New opportunities & challenges :
  - other target groups (higher education, cities,...)
  - content & approach





## 3 • NEW PERSPECTIVES IN 2020

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## **UPDATE OF BELGIAN TOOLS WITHIN EU**

- New figures & (quantitative & qualitative) analysis to achieve climate neutrality
- Green Deal & EUCALC



http://www.european-calculator.eu/



# **THANK YOU!**

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