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## DE ROL VAN INFORMATIE IN HET KLIMAATBELEID

20/10/2016 MILIEU INFORMATIE UITFORMATIE?  
FELNET-STUDIEDAG, ANTWERPEN



INFORMATIE EN KLIMAATBELEID • FELNET  
DIENST KLIMAATVERANDERING  
FEDERALE OVERHEIDS Dienst VOLKSGEZONDHEID VEILIGHEID VAN DE VOEDSELKETEN EN LEEFMILIEU

**be**

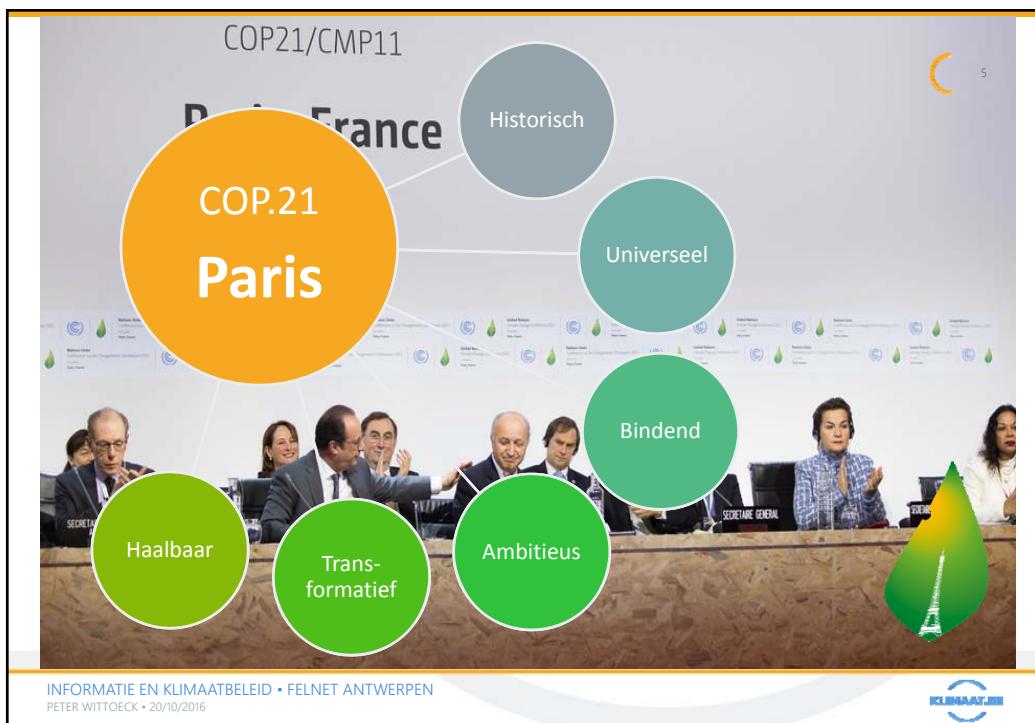
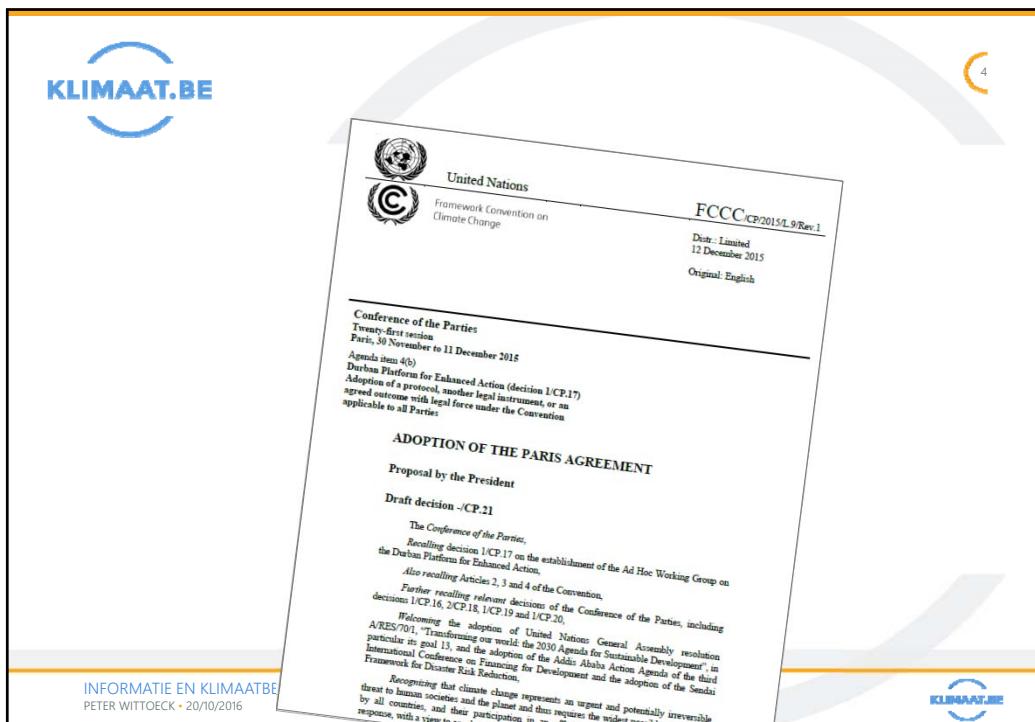
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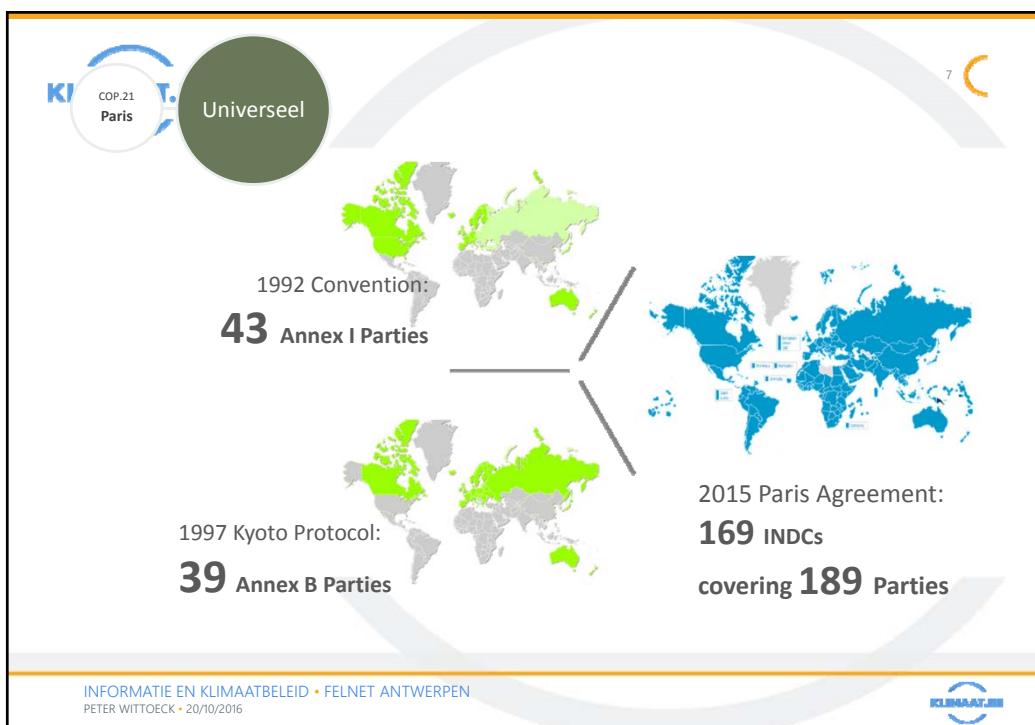
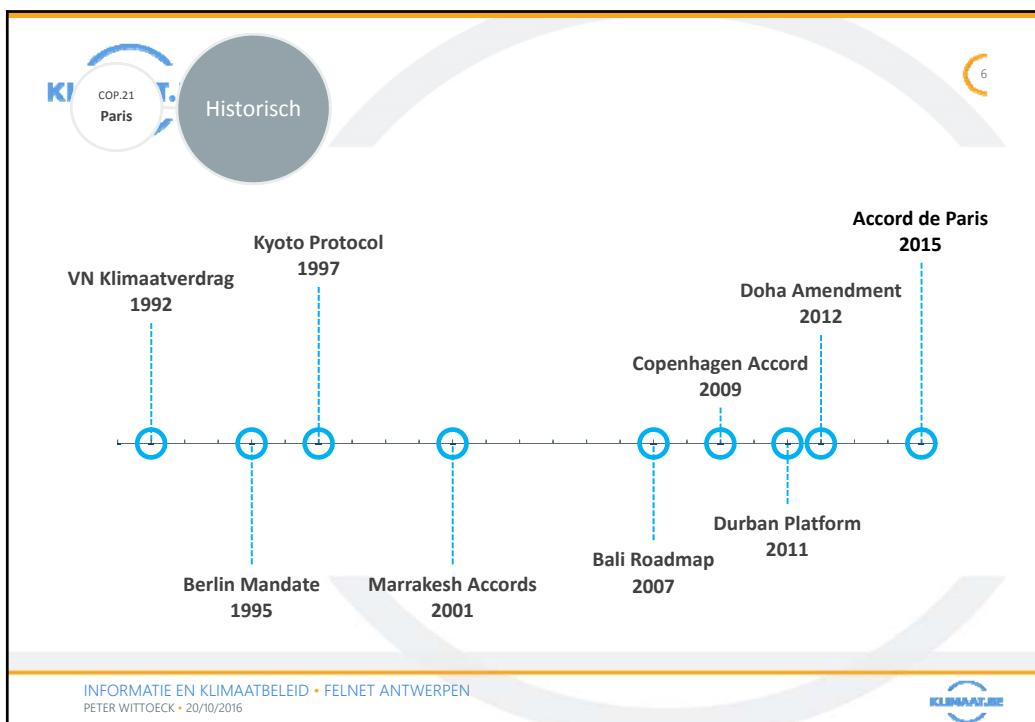
VOORAF:  
**DE OVEREENKOMST  
VAN PARIJS**  
(IN EEN NOTENDOP)



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**KI COP.21 Paris**

### Bindend

- Verdrag naar internationaal recht
- Bindend in zijn juridische vorm

... maar ook in zijn specifieke **bepalingen**

Parties...

shall → are to → should → aim to → may  
are encouraged

**81 PARTIES JOINED (165 NEEDED)**  
**0.44% OF GLOBAL EMISSIONS (50% NEEDED)**

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**KI COP.21 Paris**

### Ambitieus

- Ruim beneden + 2°C
- Streven naar max. + 1,5°C

**The Paris Agreement's long-term goal on global GHG emissions**

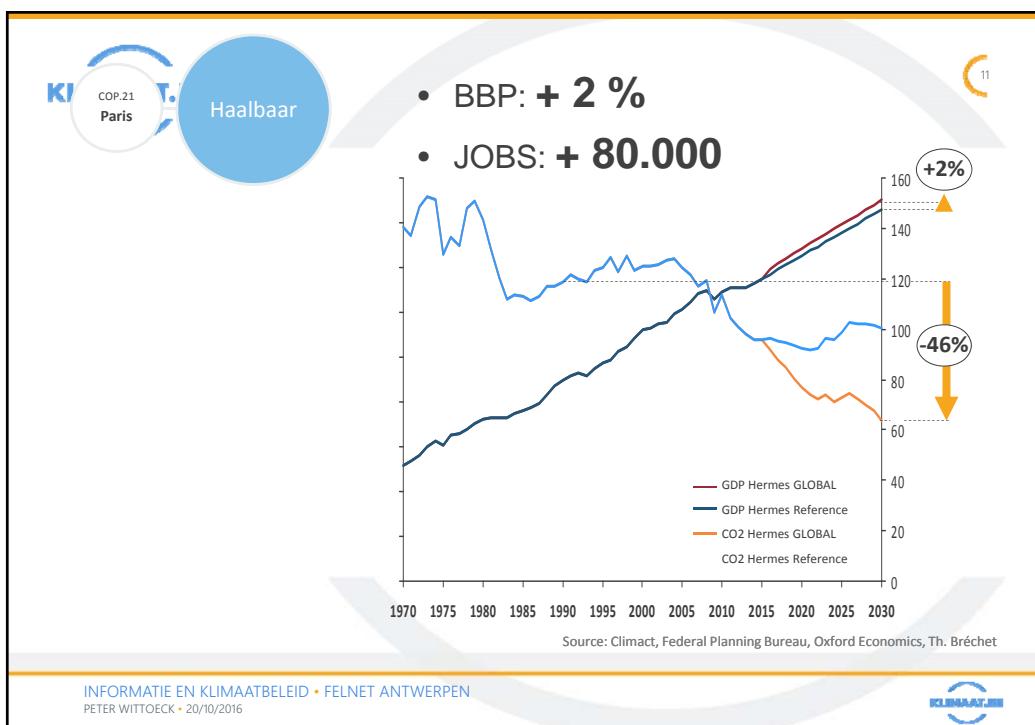
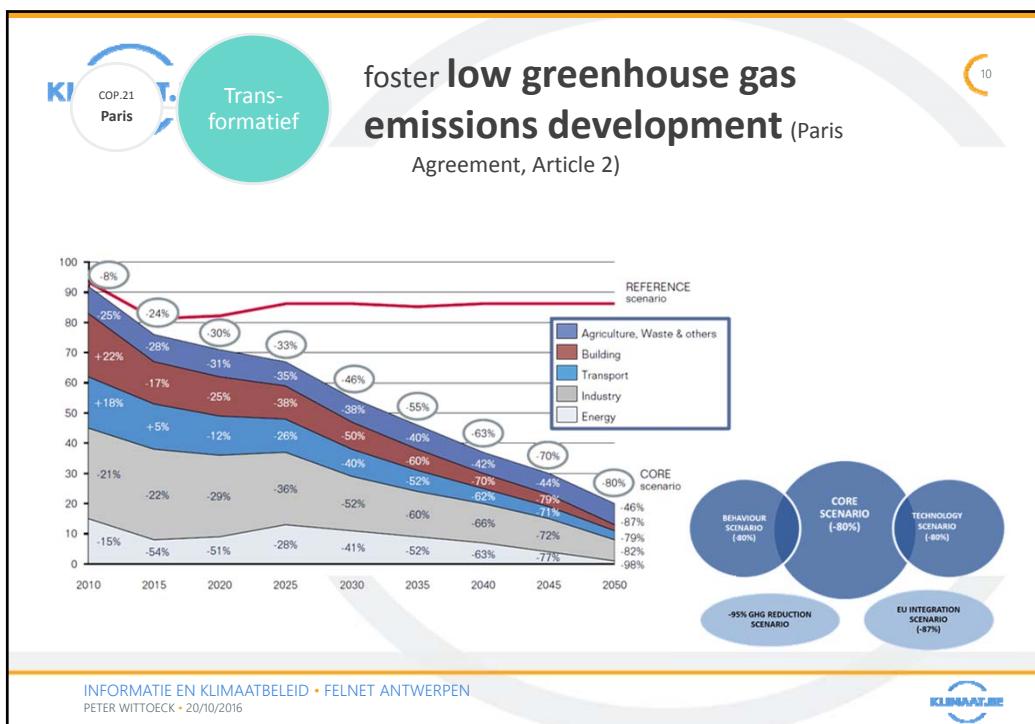
**1.5°C**      **2°C**

**C** **Global peaking (as soon as possible) & rapid reductions thereafter**

**D** **Net-Zero between 2050 and 2100, expressed as "balance between anthropogenic emissions by sources and removals by sinks in the second half of this century"**

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## DE ROL VAN INFORMATIE

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The diagram illustrates the 'BOUWSTENEN VAN HET KLIMAATBELEID' (Pillars of Climate Policy) as a network of interconnected cubes. The central cube contains the UNFCCC logo. Surrounding it are nine other cubes representing different policy areas:

- Objectives (Blue)
- Mitigation (Yellow)
- Research & Systematic Observation (Green)
- Education Training Public awareness (Orange)
- Reporting Accounting Compliance (Teal)
- Institutions (Green)
- Adaptation (Orange)
- Support (Blue)
- Finance (Blue)
- Capacity Building (Blue)
- Technology (Blue)

Below the cubes, three international agreements are listed:

- VN-Klimaatverdrag
- Kyoto-Protocol
- Overeenkomst van Parijs

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DE ROL VAN DE WETENSCHAP  
RESEARCH &  
SYSTEMATIC OBSERVATION

March 2016 L-OI (°C) Anomaly vs 1951-1980 1.29

-4.0 -2.0 -1.0 -0.5 0.2 0.5 1.0 2.0 4.0 6.0

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## IPCC - INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

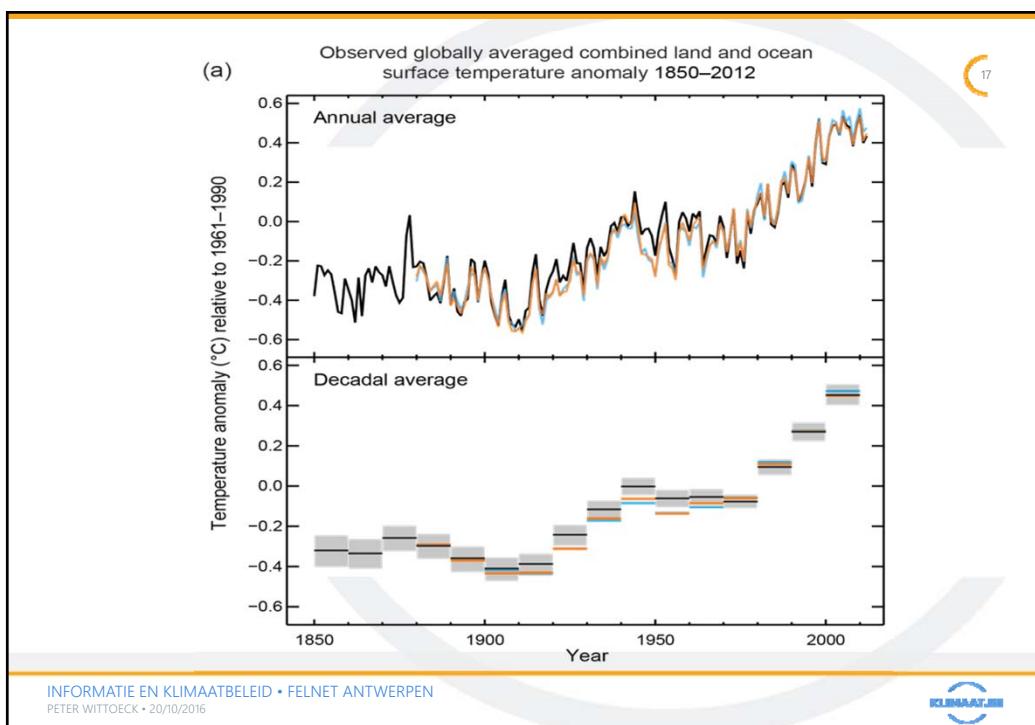
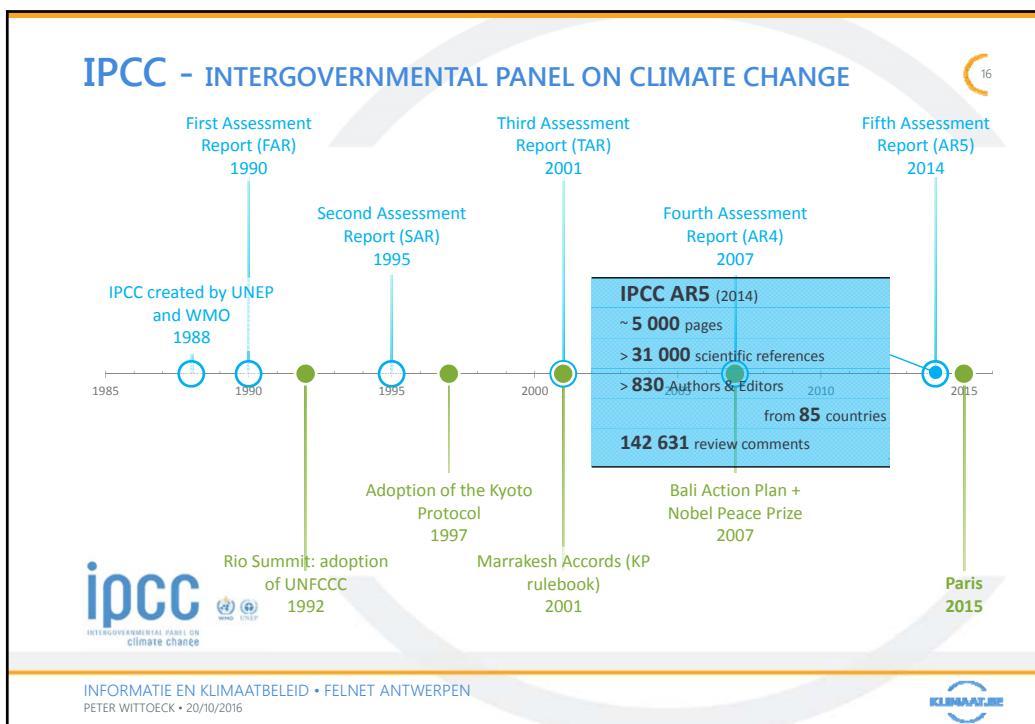
- set up in 1988 by World Meteorological Organization (WMO) and United Nations Environment Programme (UNEP)
- 195 member governments
- provide policymakers with assessments of
  1. the scientific basis of climate change
  2. impacts and future risks
  3. options for adaptation and mitigation.
- does not do its own research
- assesses thousands of scientific papers.
- policy-relevant without being policy-prescriptive
- options for policymakers to choose from.
- mobilizes hundreds of scientists not paid
- extensive process of repeated drafting and review.

**ipcc**  
INTERGOVERNMENTAL PANEL ON  
climate change

WHO UNEP

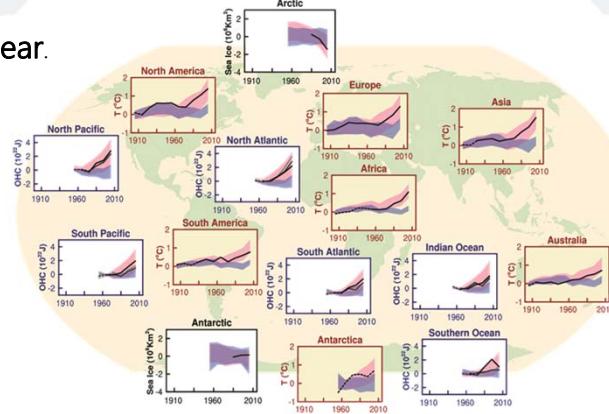
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## IT'S US...

**Human influence**  
on the climate system is **clear**.



There is **high confidence** that changes in total solar irradiance have not contributed to the increase in global mean surface temperature over the period 1986 to 2008.

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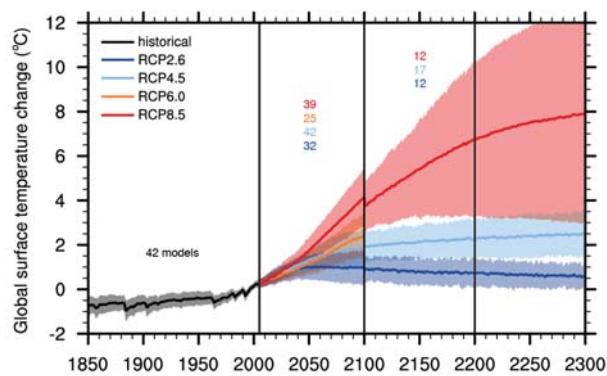
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## IT'S GOING TO LAST...

Most aspects of climate change will **persist for many centuries** even if emissions of CO<sub>2</sub> are stopped;

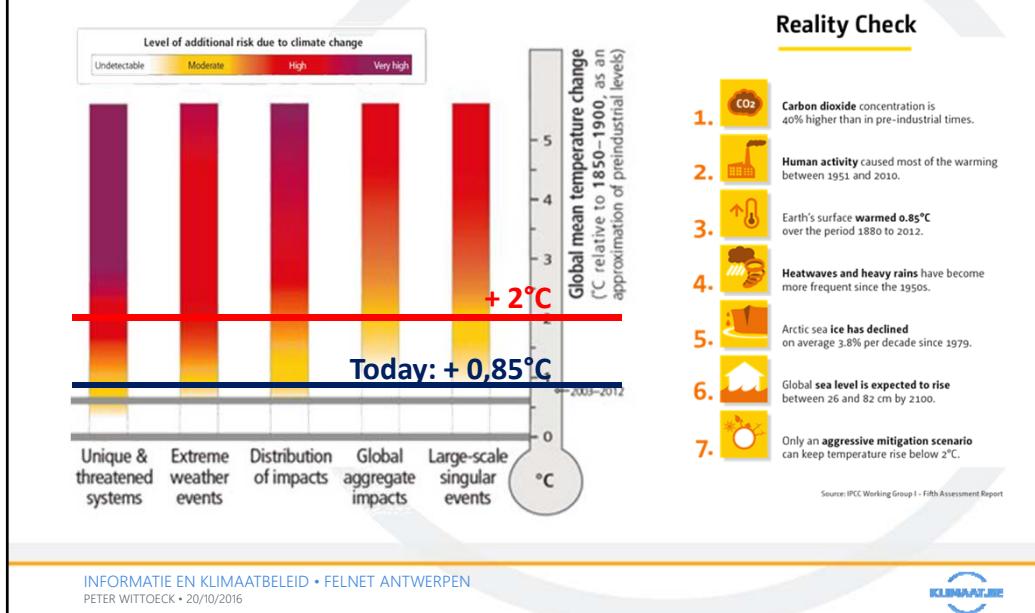
This represents a substantial multi-century climate change commitment created by past present and future emissions of CO<sub>2</sub>.



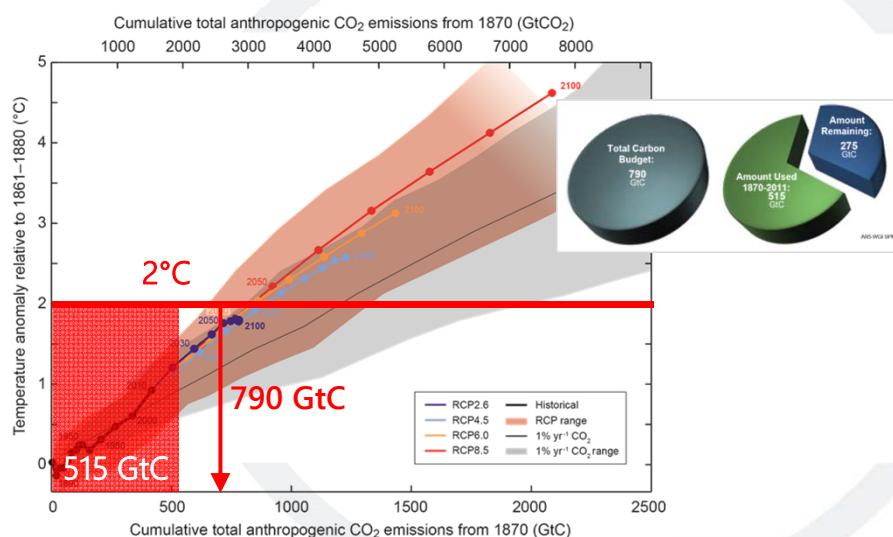
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# IMPACTS ARE ALREADY BEING FELT



TIME'S RUNNING OUT...



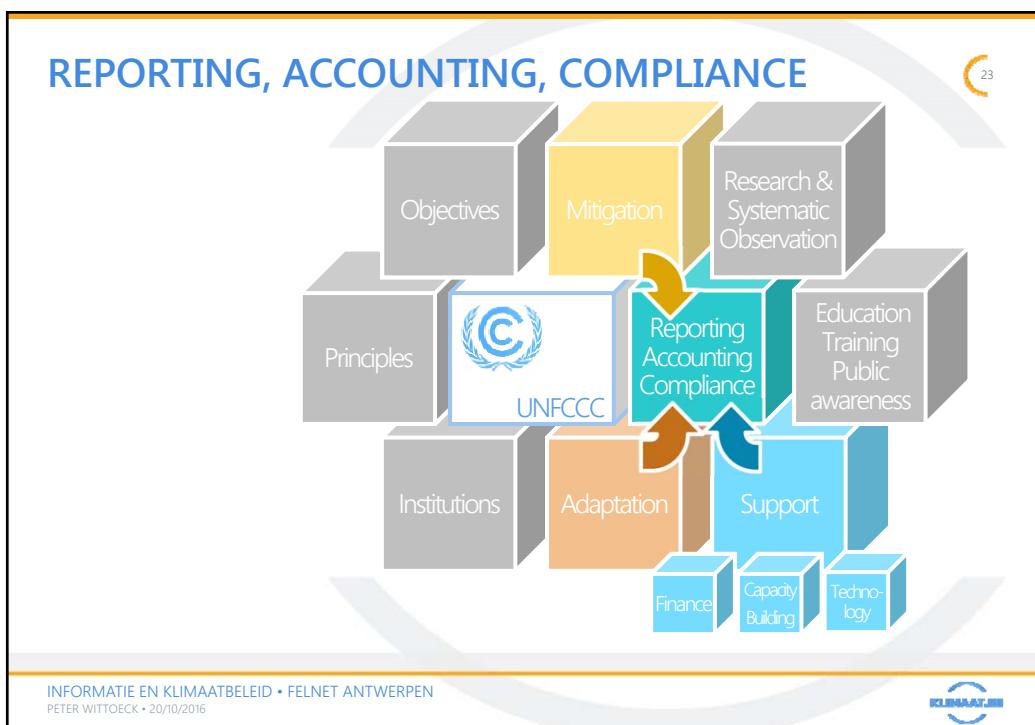
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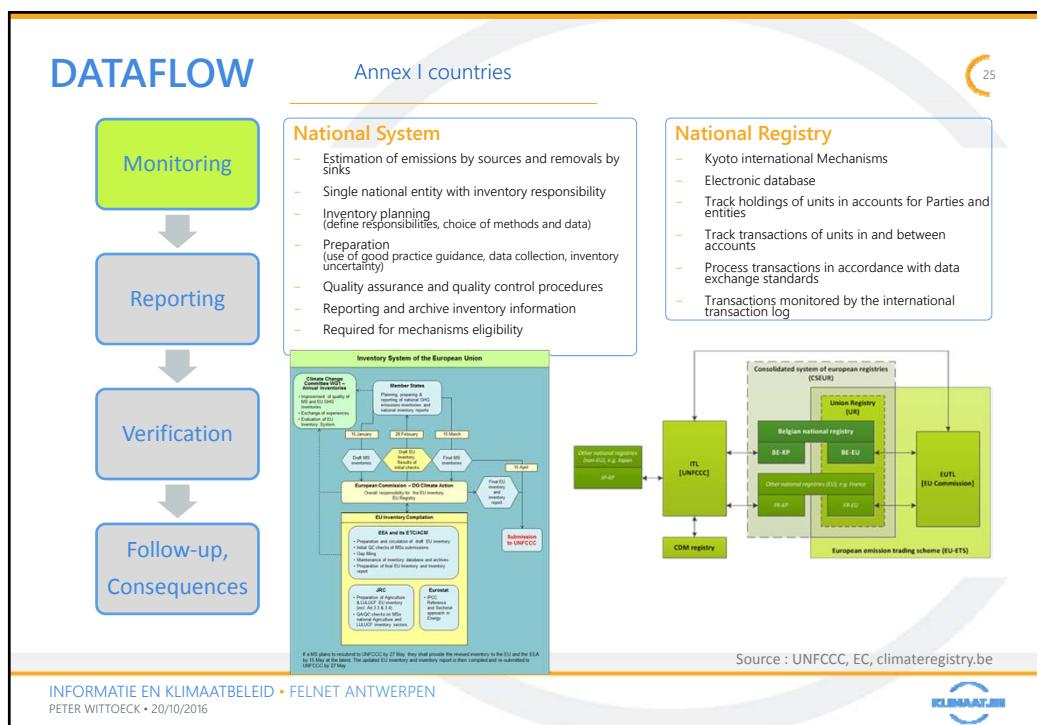
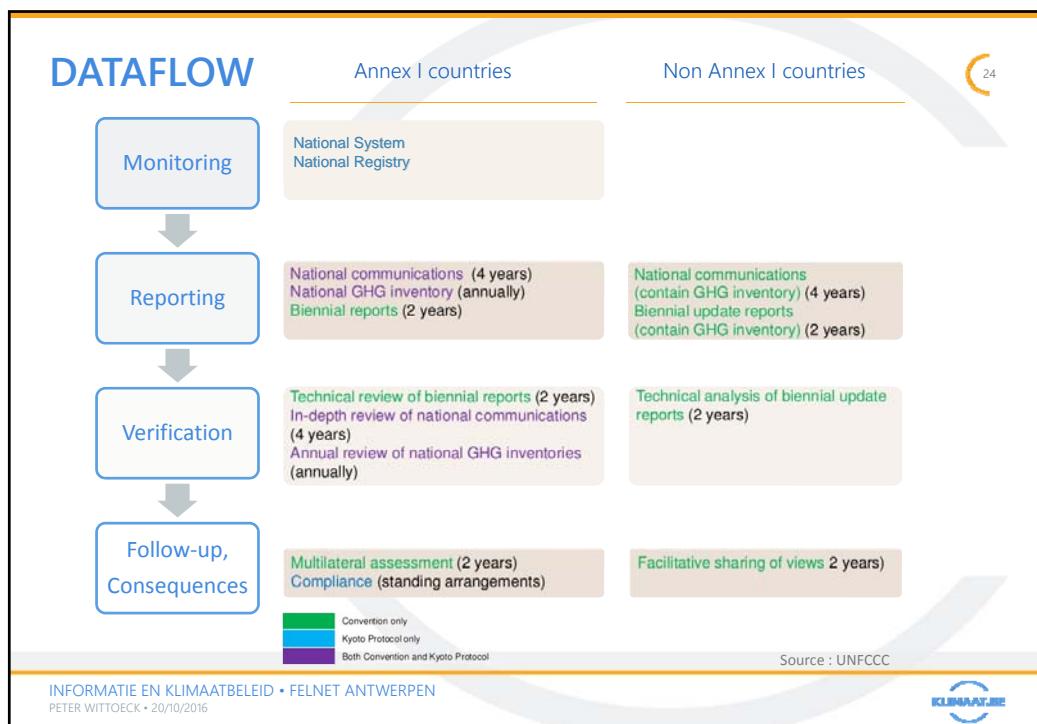
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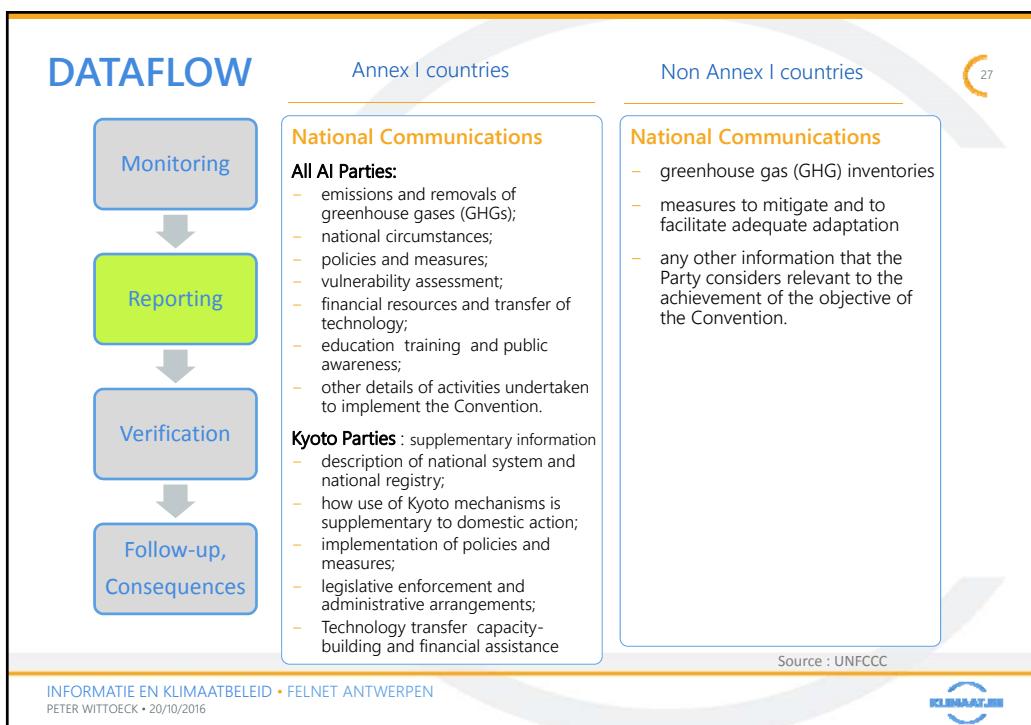
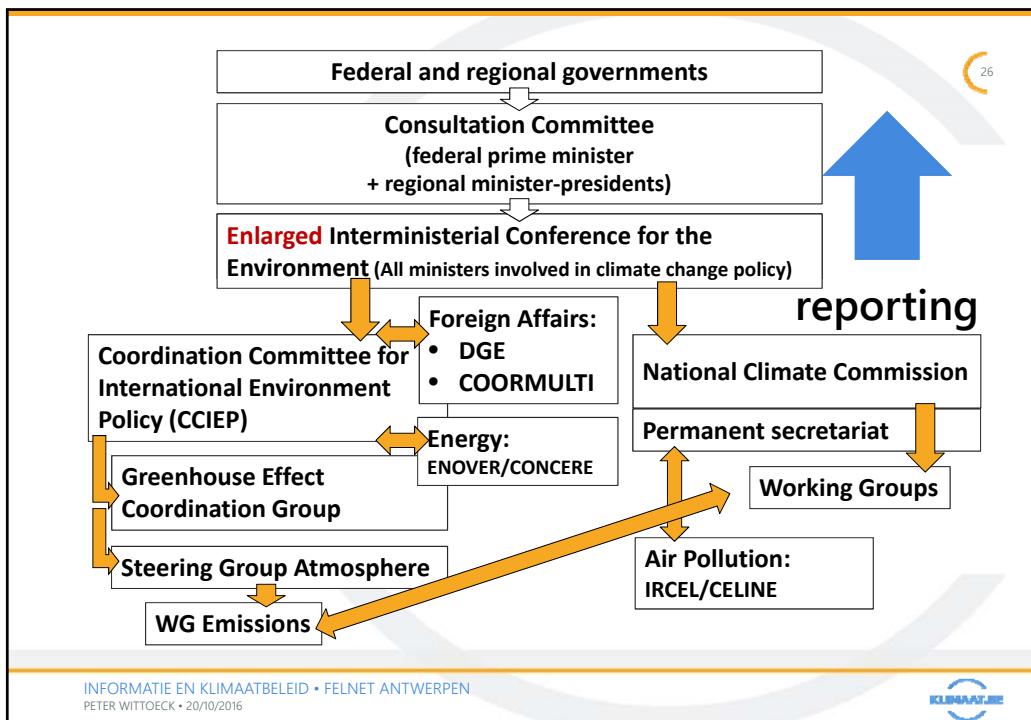
## DATA ALS HOEKSTEEN VAN DE BELEIDSCYCLUS REPORTING ACCOUNTING COMPLIANCE

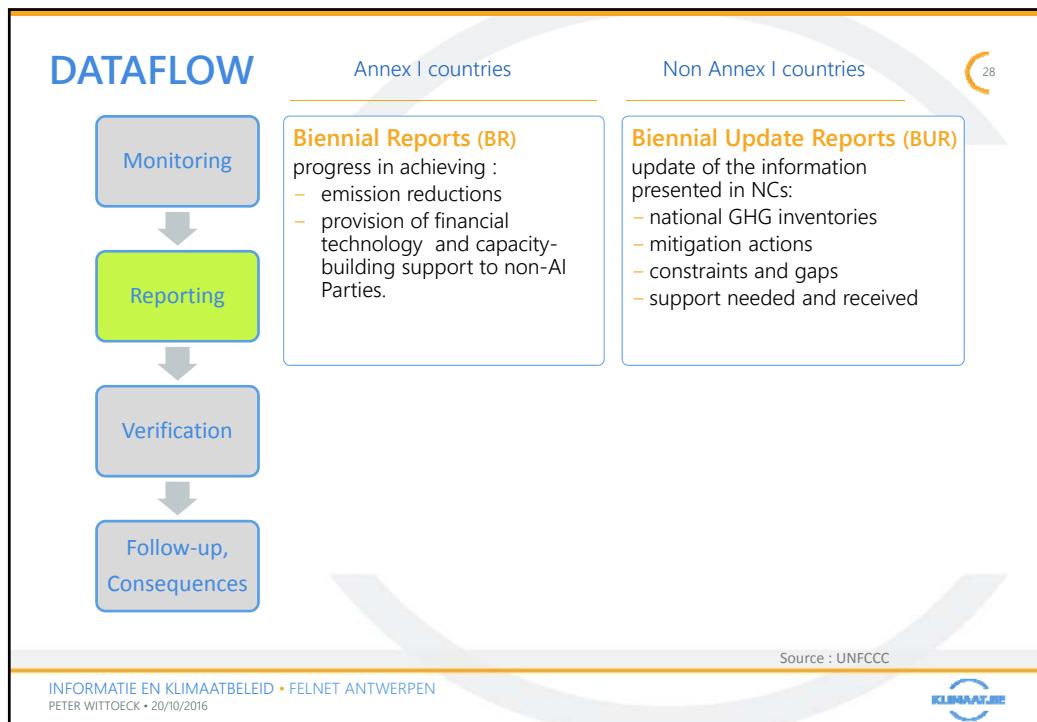
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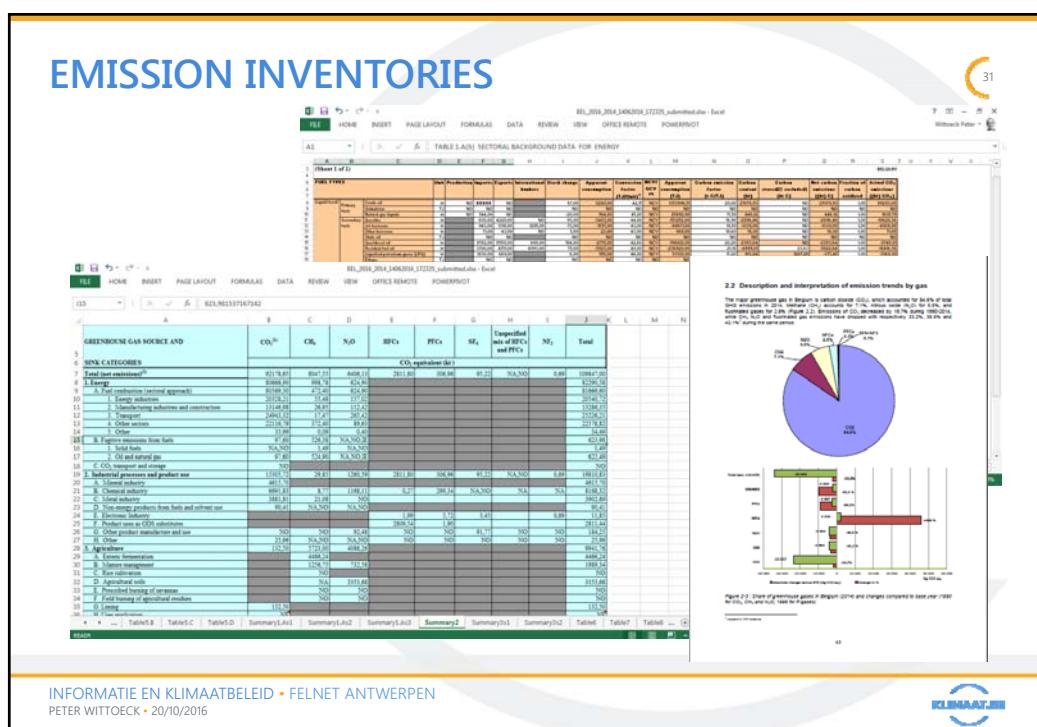
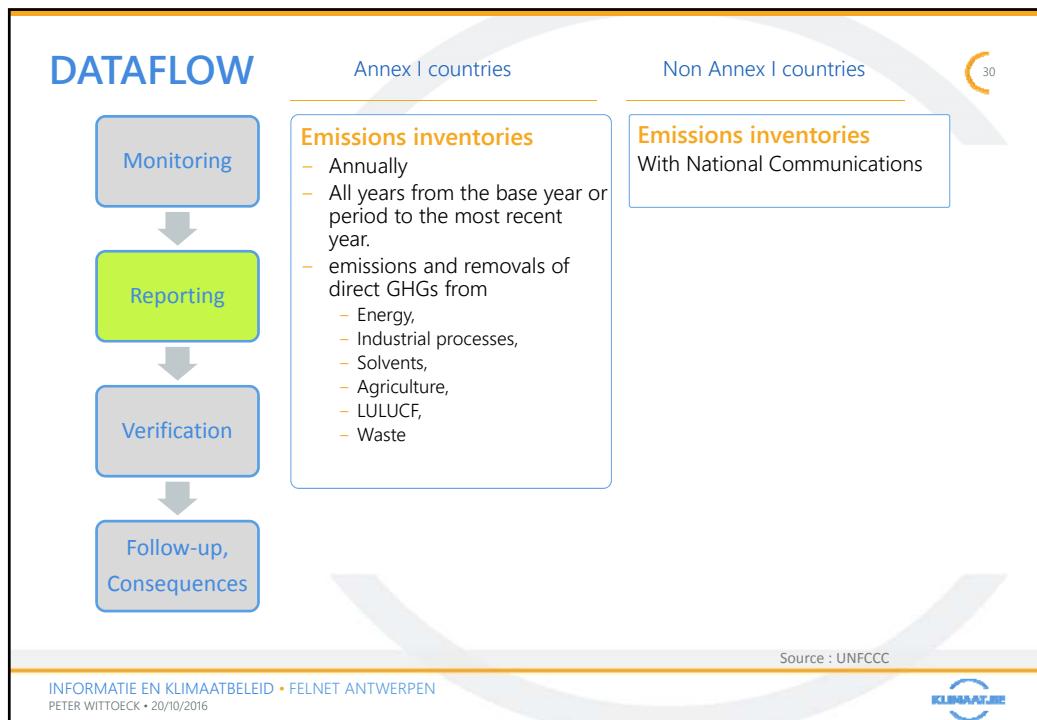
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**SAMENWERKING IN BELGIË:  
EMISSIE-INVENTARIS**

Nationale inventaris = 3 gewestelijke emissie-inventarissen

De federale administratie levert de nationale statistieken op energievlak.

De gewestelijke instanties verantwoordelijk voor de inventarissen zijn :

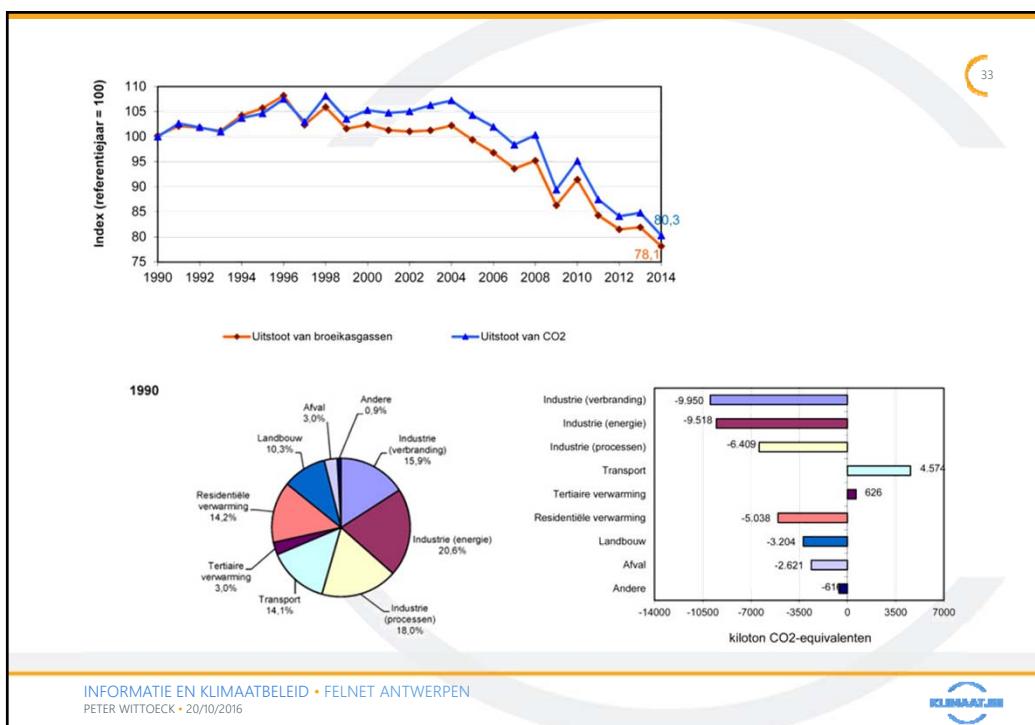
- Vlaamse Milieu Maatschappij (VMM)
- Leefmilieu Brussel
- Agence wallonne de l'Air et du Climat (AWAC)

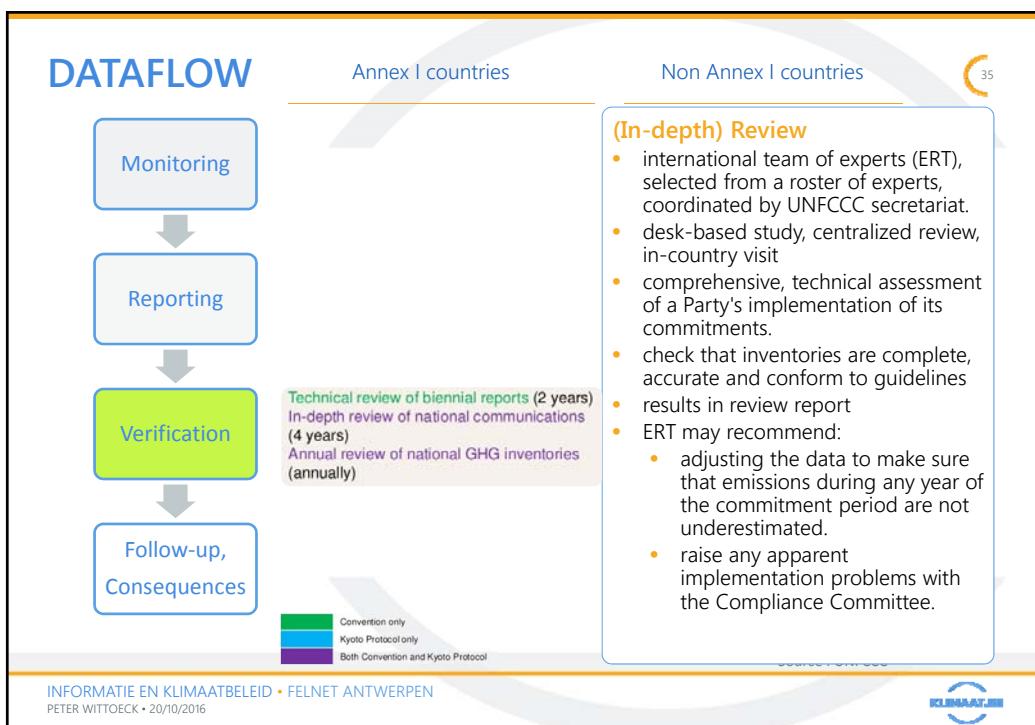
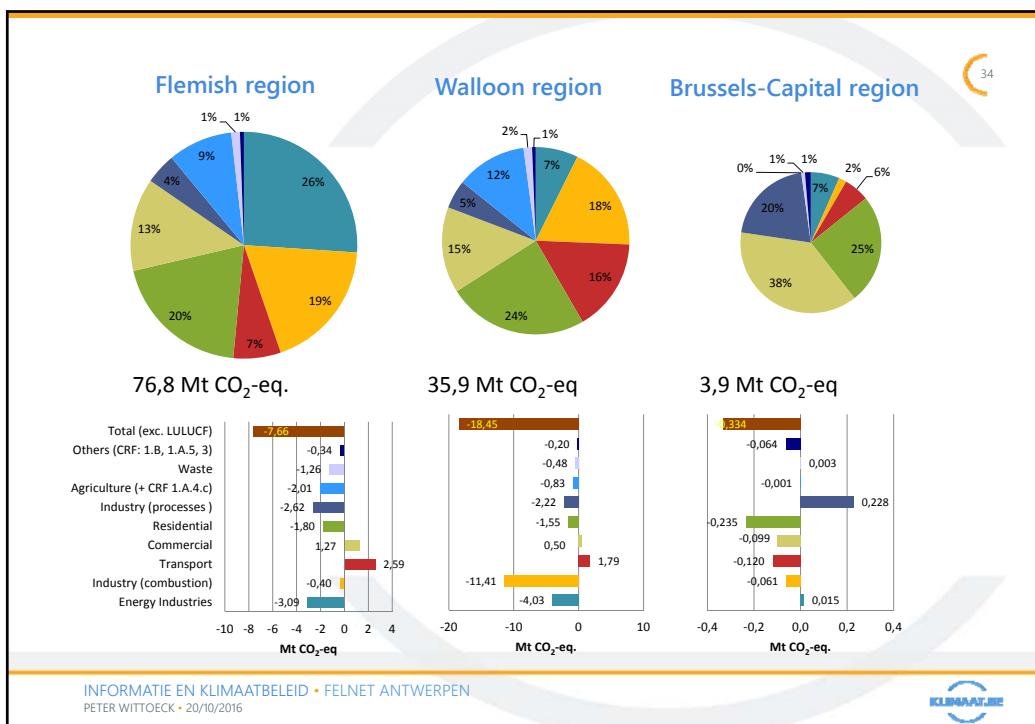
De Intergewestelijke Cel voor het Leefmilieu (IRCEL) is verantwoordelijk voor de compilatie.

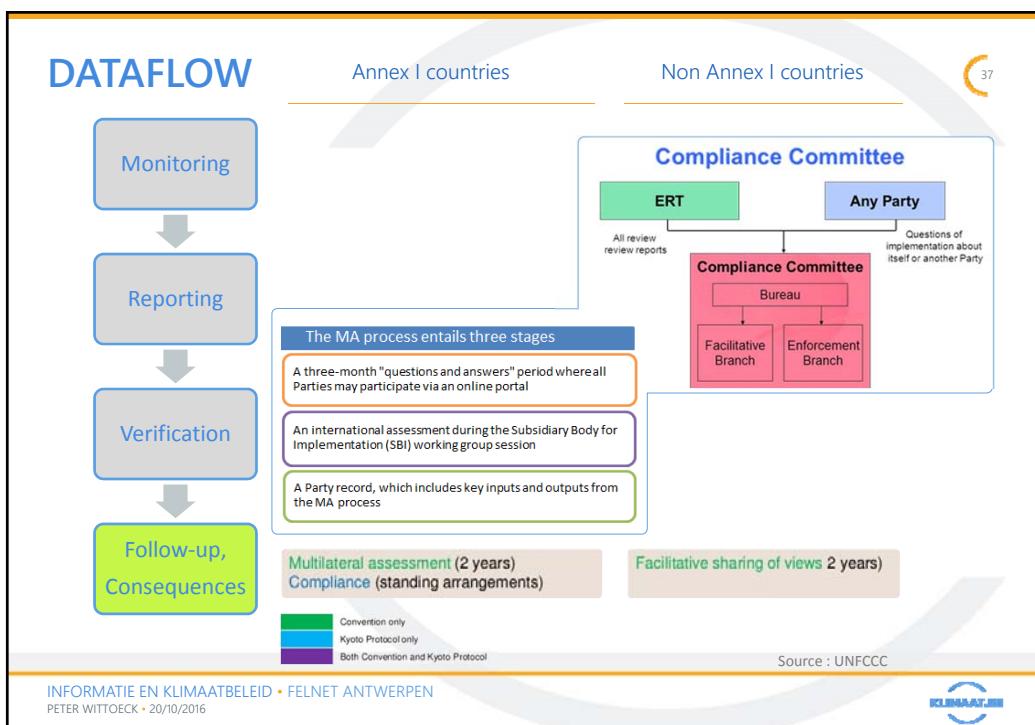
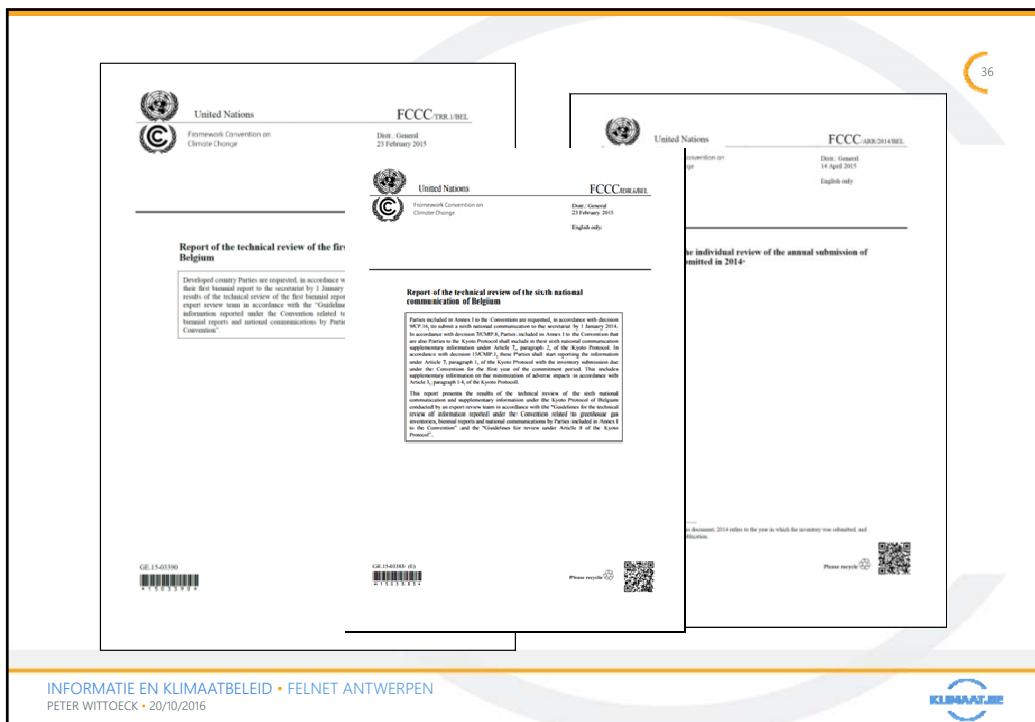
De inventaris wordt goedgekeurd door de Nationale Klimaatcommissie

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**Multilateral assessment process Belgium** 

The first multilateral assessment (MA) of Belgium took place at the Working Group Session (WGS) under the SBI 42 in Bonn on 4 June 2015. The aim of this session is to assess Belgium's progress in implementation towards the achievement of emission reductions and removals related to its quantified economy-wide emission reduction targets.

The WGS is preceded by a three-month period of questions and answers in the lead-up to the SBI session in Bonn.

Questions to Belgium should be submitted via the MA-Portal from 1 to 31 March 2015. For Parties to access the MA-Portal, log-in credentials are required and these have been provided to relevant persons nominated by Parties to access the Portal on their behalf.

A compilation of questions to Belgium was published on 1 April 2015 ([Q&A \(303 kB\)](#)) and was replaced with a full compilation of questions and answers on 31 May 2015 ([Q&A \(303 kB\)](#)).

The following documents are available:

<b>Input to MA</b> <ul style="list-style-type: none"> <li>First Biennial Report (<a href="#">FBR (302 kB)</a>) and technical review report (<a href="#">TRR (1125 kB)</a>)</li> <li>Stated Intended Contribution (<a href="#">SIC (10209 kB)</a>) and review report (<a href="#">RR (295 kB)</a>)</li> <li>National GHG inventory information (<a href="#">NGI (102 kB)</a>), and report (<a href="#">RR (295 kB)</a>)</li> </ul>	<b>Output of MA including Party record</b> <ul style="list-style-type: none"> <li>TRR</li> <li>IDR</li> <li>ARR</li> <li>Complete set of questions and answers (<a href="#">Q&amp;A (303 kB)</a>)</li> <li>Any observation by Belgium</li> <li>SBI summary report</li> </ul>
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Note: Some links in the output of MA will only be activated after the WGS (compiled observations and the SBI summary report).

**Webcasts**

Link to webcast and presentation of WGS under the SBI 42. For the presentation scroll down to slides'.

**UNFCCC WEBCAST**

**UNFCCC SBI 42 MULTILATERAL ASSESSMENT  
BELGIUM**

Bonn, 4 June 2015

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## PARIS AGREEMENT (ART. 13)



- “an **enhanced transparency framework** for action and support, with built-in flexibility which takes into account Parties’ different capacities” (PA art. 13.1);
- “[...] to provide a **clear understanding** of climate change action [...] **tracking of progress** towards achieving Parties’ individual **nationally determined contributions** under Article 4, and Parties’ **adaptation actions** under Article 7 ” (PA art. 13.5)
- “[...] to provide clarity on **support provided and received**, [...]” (PA art. 13.6)
- “implemented in a **facilitative, non-intrusive, non-punitive** manner, respectful of national sovereignty, and avoid placing undue burden on Parties.” (PA art. 13.3)

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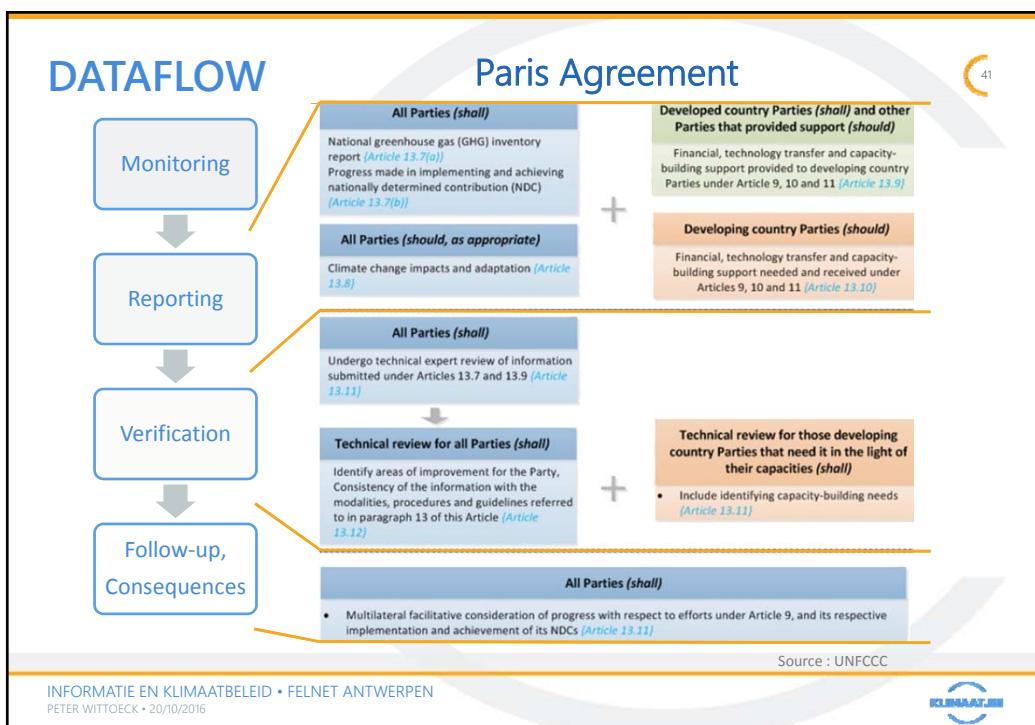
## PARIS AGREEMENT

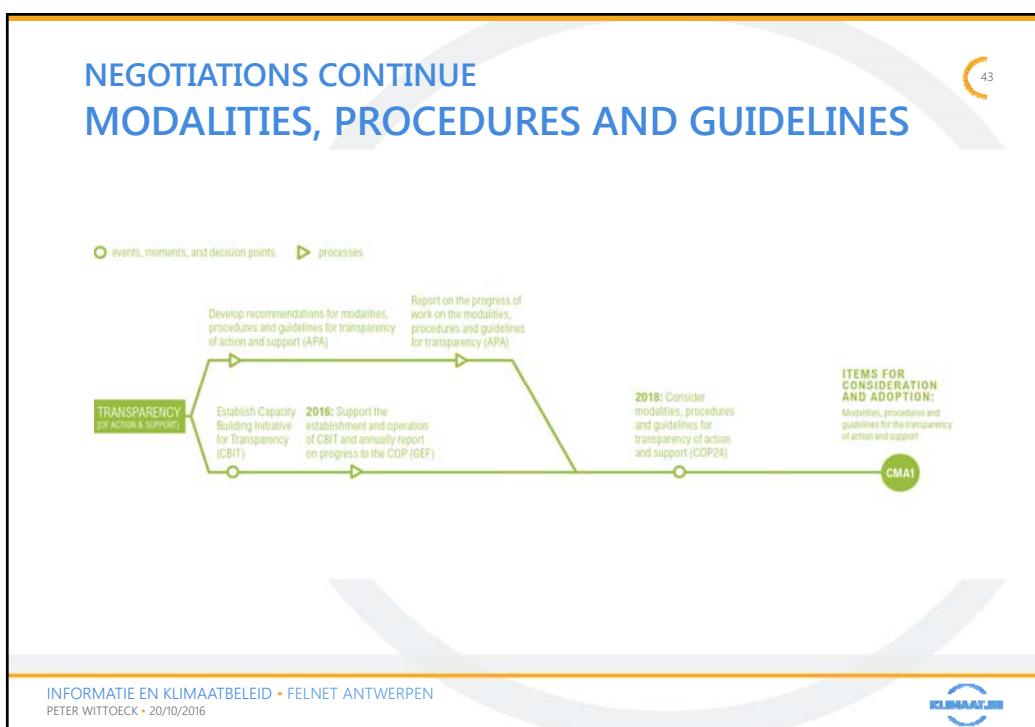
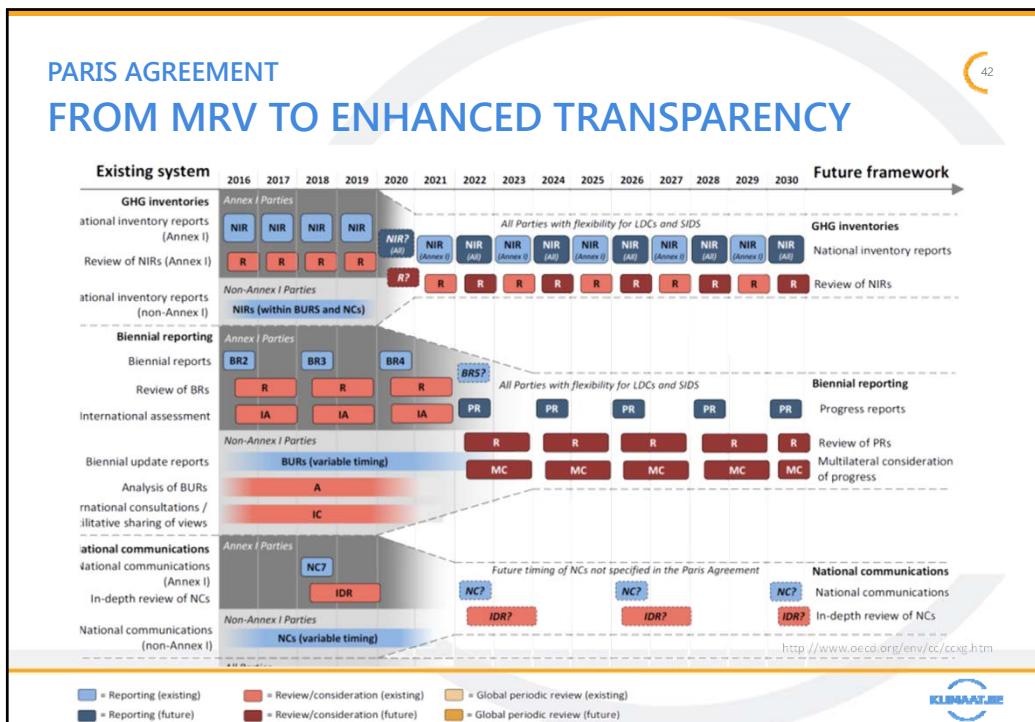
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- "Information submitted by **each Party** [...] shall undergo a **technical expert review** [...] In addition, each Party shall participate in a facilitative, multilateral consideration of progress" (PA art. 13.11)
- A mechanism to facilitate implementation of and **promote compliance** with the provisions of this Agreement is hereby established (PA art. 15.1)
- [...] expert-based and **facilitative in nature** and function in a manner that is transparent, non-adversarial and non-punitive." (PA art. 15.2)

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## EU MONITORING MECHANISM

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Regulation (EU) No 525/2013 of 21 May 2013 on a mechanism for monitoring and reporting greenhouse gas emissions and for reporting other information at national and Union level relevant to climate change

Legal obligation for EU Member States to report to the EC on:

- Greenhouse gas **inventories**
- **Projections**
- **Policies** and measures
- Biennial reports and national communications
- **Low-carbon development strategies**
- Use of **EU ETS auctioning revenue** and project credits
- Financial and technology **support** provided to developing countries
- National **adaptation actions**

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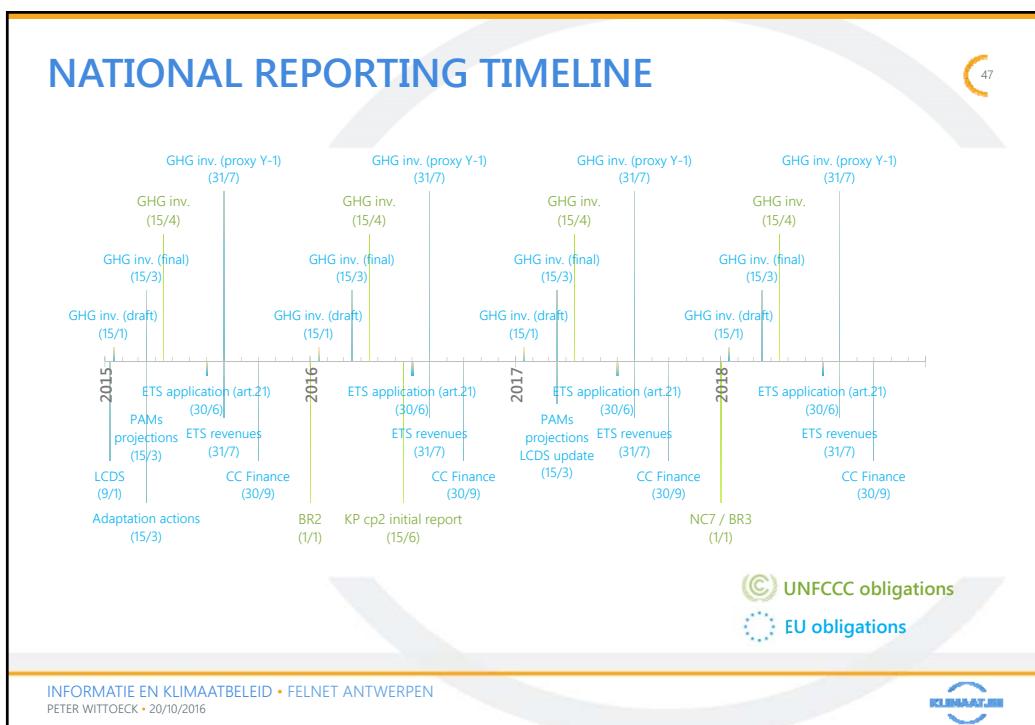
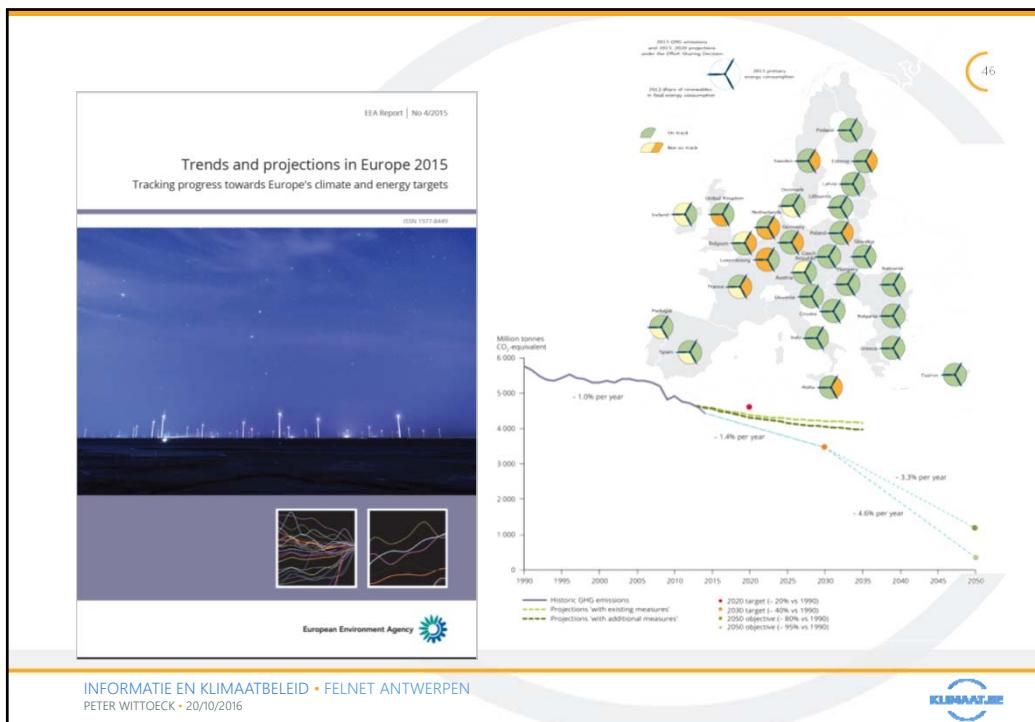
## EU MONITORING MECHANISM

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DATA FLOWS		
<b>GHG inventory</b>	<ul style="list-style-type: none"> <li>• 15/01: MS draft GHG inventories to Commission &amp; EEA (MMD)</li> <li>• 15/03: MS final GHG inventories to Commission &amp; EEA (MMD)</li> <li>• 15/04: MS &amp; EU draft GHG inventories to UNFCCC</li> <li>• <b>27/05: MS &amp; EU final GHG inventories to UNFCCC ('Y-2')</b></li> <li>+ EEA publishes EU GHG inventory report + updates GHG viewer</li> </ul>	
<b>EU ETS</b>	<ul style="list-style-type: none"> <li>• 01/04: Commission publishes <b>EU ETS verified emissions</b></li> <li>EEA updates EU ETS data viewer</li> </ul>	
<b>Proxy inventory</b>	< Some MS report own proxy data >	• Sep: EEA publishes <b>EU / MS proxy inventory ('Y-1')</b>
<b>Projections PaMs</b>	<ul style="list-style-type: none"> <li>• 15/03: MS info on GHG projections and PaMs to Commission (MMD, biennial: 2011, 13)</li> <li>QA/QC + gap filling by EEA until May-June</li> </ul>	
PROGRESS ASSESSMENTS		
<b>EU and MS progress towards UNFCCC and Kyoto Protocol commitments</b>		<ul style="list-style-type: none"> <li>• Oct: EEA and Commission publish annual reports on <b>EU and MS progress (Kyoto, 2020)</b> ahead of Env. Council</li> </ul>
<b>"European Semester": progress towards "Europe 2020" objectives</b>	<ul style="list-style-type: none"> <li>• Nov/Jan: Commission's <b>Annual Growth Survey</b></li> <li>• 15/04: MS <b>National Reform Programs</b></li> </ul>	<ul style="list-style-type: none"> <li>• Jun: Commission's <b>country-specific opinions and recommendations</b></li> </ul>

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## EU ENERGY UNION

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- top priority of the Juncker Commission...
- driven by competitiveness, geopolitics and sustainability
- holistic approach covering 14 Commissioners & 16 DGs

<b>5 dimensions:</b>	<b>2 pillars</b>
<ol style="list-style-type: none"> <li>1. Energy security</li> <li>2. Internal energy market</li> <li>3. Energy efficiency</li> <li>4. Decarbonising the economy</li> <li>5. Research, innovation and competitiveness</li> </ol>	<ol style="list-style-type: none"> <li>a) Integrated National Energy and Climate plans</li> <li>b) State of the Energy Union</li> </ol>
<b>Governance will be underpinned by EU LEGISLATION</b>	

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## EU ENERGY UNION

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"... the **crucial importance** of a reliable and transparent governance system of the Energy Union with a clearly defined, **long-term policy planning and monitoring** process for the implementation of the Energy Union strategy"

(Council of the EU, 26/11/2015)

**New governance system + indicators**

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**ENERGY UNION GOVERNANCE**

**PILAR A: NATIONAL ENERGY AND CLIMATE PLAN**

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"2.1 the first National Plan will cover the period from **2021 to 2030**, will integrate energy and climate components, and should be holistic and reflect the five dimensions of the Energy Union. The National Plan will be a concise, **synchronised high-level strategic** planning document;"

"... reflect a perspective that consistent with ... at least 50% by 2050 compared to 1990 and be **near zero or below by 2100**; developed countries as a group... **80-95% by 2050**

.... all Parties should pursue **transformative pathways** towards ... **climate neutrality** and climate resilience ..."

(Council (Energy) of the EU, 26/11/2015)

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**ENERGY UNION GOVERNANCE**

**PILAR A: NATIONAL ENERGY AND CLIMATE PLAN**

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<b>PART A NATIONAL PLANS</b>		<b>PART B ANALYTICAL BASIS</b>		
<b>1. Overview and Process for Establishing the Plan</b>				
<b>ENERGY UNION Dimensions</b>				
Decarbonisation				
Energy efficiency	<b>2. National Objectives and Targets</b>	<b>3. Policies and Measures</b>	<b>4. Current Situation and Reference Projections</b>	<b>5. Impact Assessment of Policies and Measures</b>
Energy security				
Internal energy market				
R&I and competitiveness				

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**ENERGY UNION GOVERNANCE**

**PILAR B: 'STATE OF THE ENERGY UNION REPORT'**

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- annual 'surveillance' (are we on track?)
- to create more transparency, e.g. through country fiches with 'policy conclusions'
- each year on the political agenda, at the political level (including Heads of State or Government) - linked with the European Semester

**GHG Emissions**

- LU IE BE and AT are not on track ...
- BE projections fall short of 2020 target by 6 percentage points.
- ...
- Certain features of the BE tax system are environmentally harmful (incl. tax treatment for company cars)

**RES**

FR LU MT NL UK and to a lesser extent BE and ES need to assess whether their policies are sufficient and effective

**EE**

- Increase in energy consumption 2012-2013 mainly due to BE CZ DE IE FR HU NL AT SK and UK.
- BE EE FR DE NL PL and SE need to reduce energy consumption at a higher rate in 2014-2020 than in 2005-2013

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**EUROPEAN SEMESTER**

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Yearly cycle of economic policy coordination.

Detailed analysis of EU Member States' plans of budgetary, macroeconomic and structural reforms, incl. progress towards 2020 Energy and Climate targets (emissions, renewables, energy efficiency), based on :

- national reform programmes (under Europe 2020).
- emissions projections

The timeline shows the following steps:

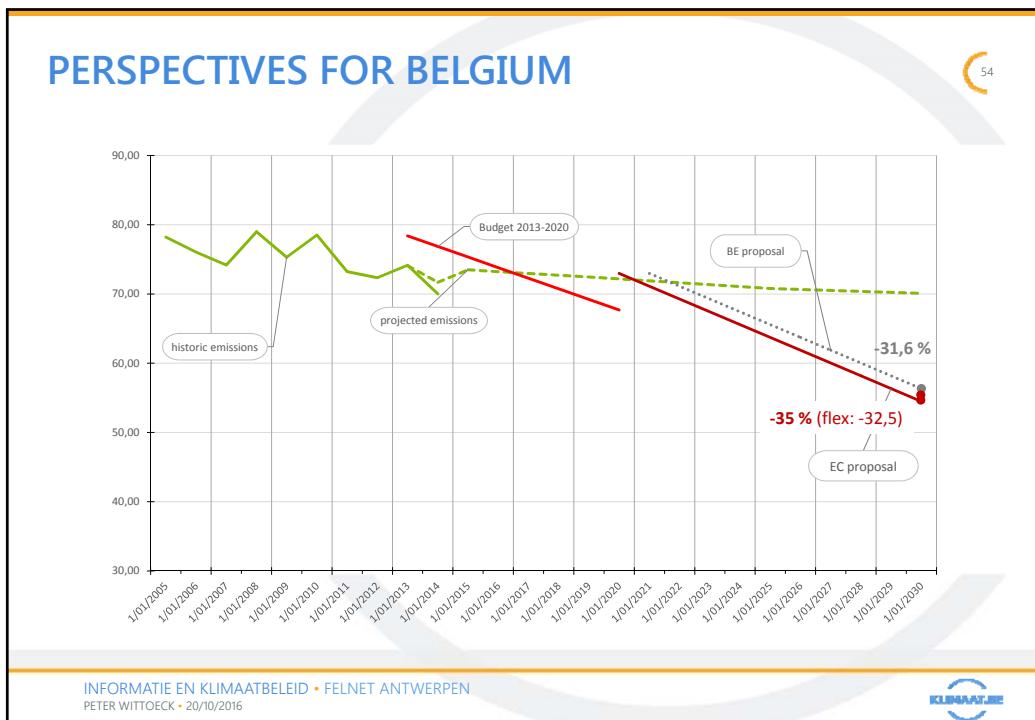
- February:** Country Report Belgium (CION Staff Working Doc 26/02)
- March:** Policy guidance including country-specific recommendation
- May:** Finalisation and adoption of guidance
- June:** Endorsement of guidance
- July:** Adoption of national reform programmes (NRPs) and stability and convergence programmes (SCPs)
- Autumn:** Autumn decisions at national level

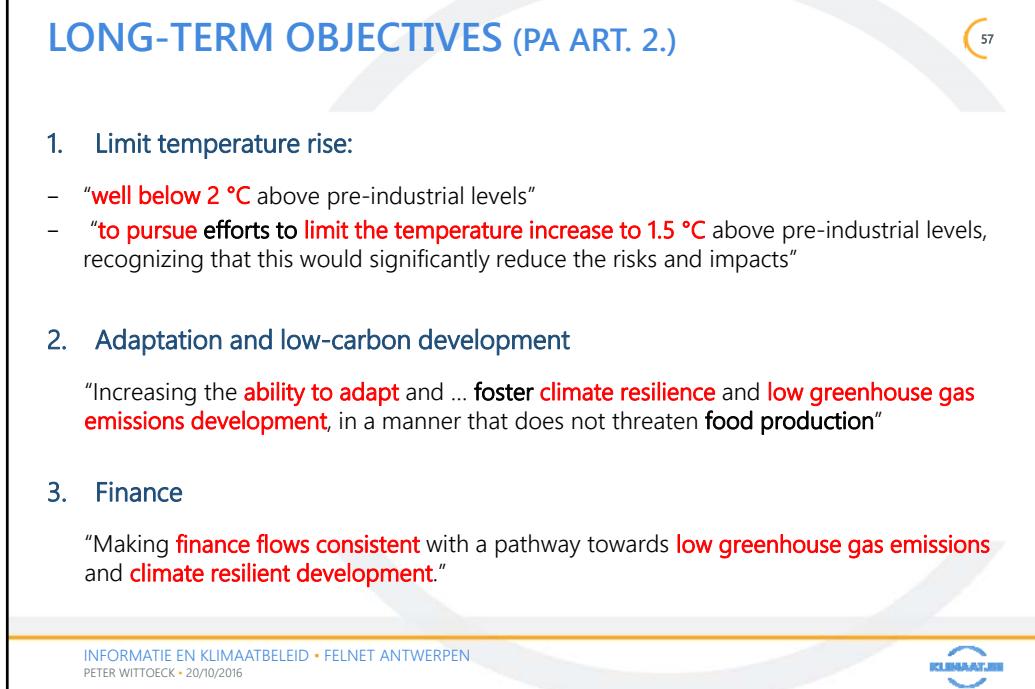
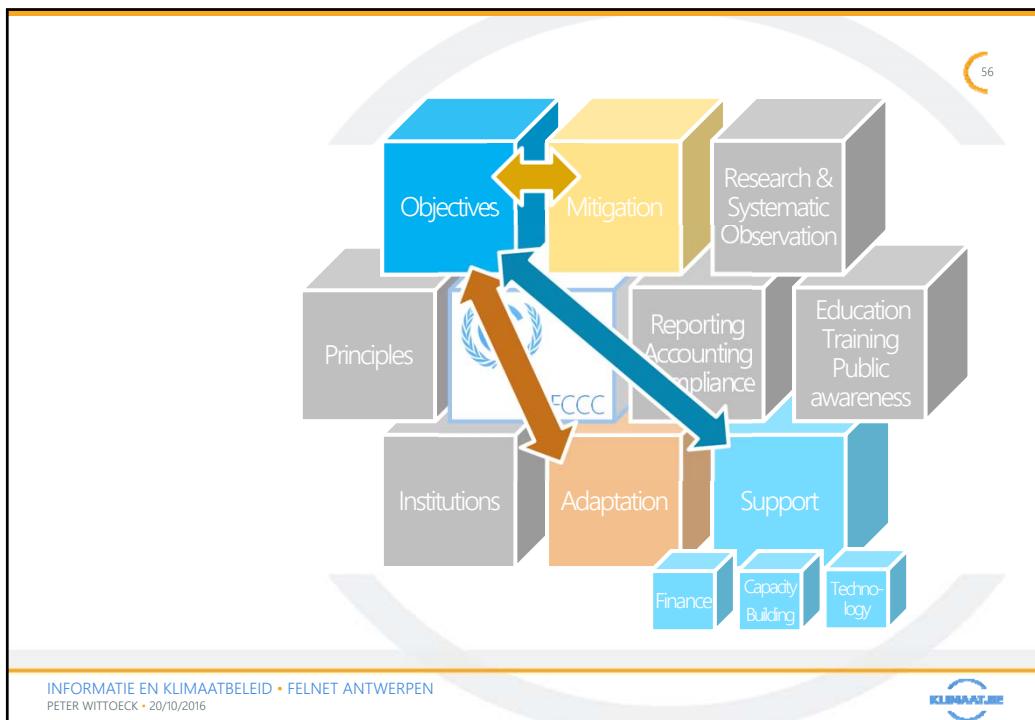
**Country Report Belgium (CION Staff Working Doc 26/02)**

- Barring a change in policies Belgium is expected to fall short of its GHG emission reduction target.
- There is considerable potential for a green tax shift which stems among others from the favourable tax treatment of company cars and fuel cards which contribute to pollution and congestion
- Advantageous tax treatment for company cars has a high budgetary cost in terms of revenue foregone estimated at approximately 0.9 % of GDP annually

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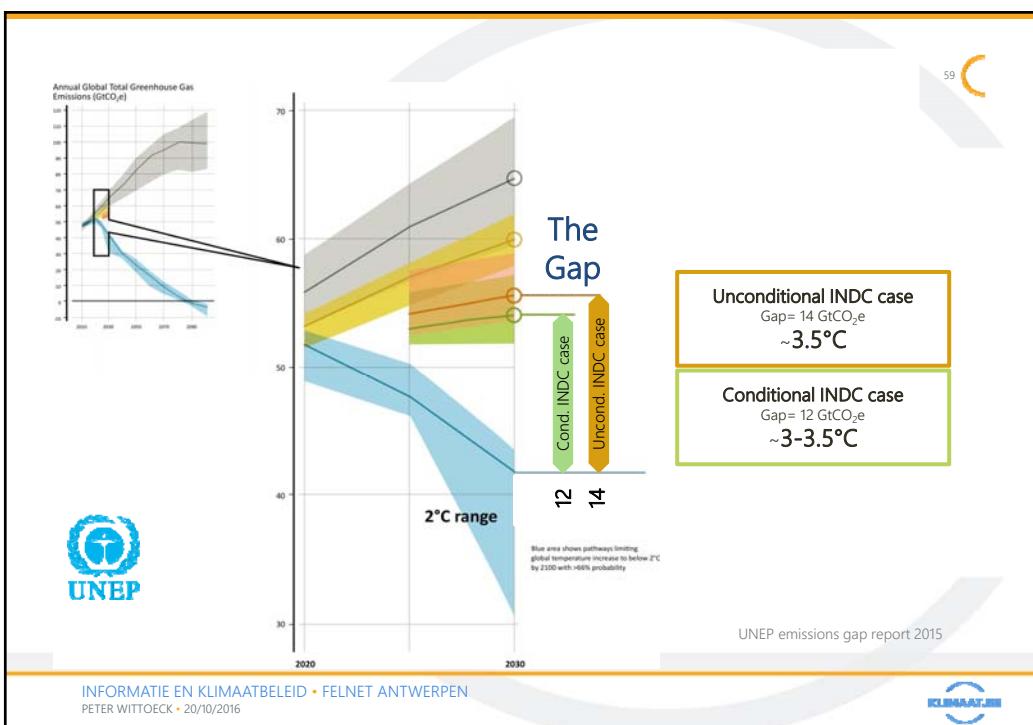
## MITIGATION OBJECTIVES (PA ART. 4.1)

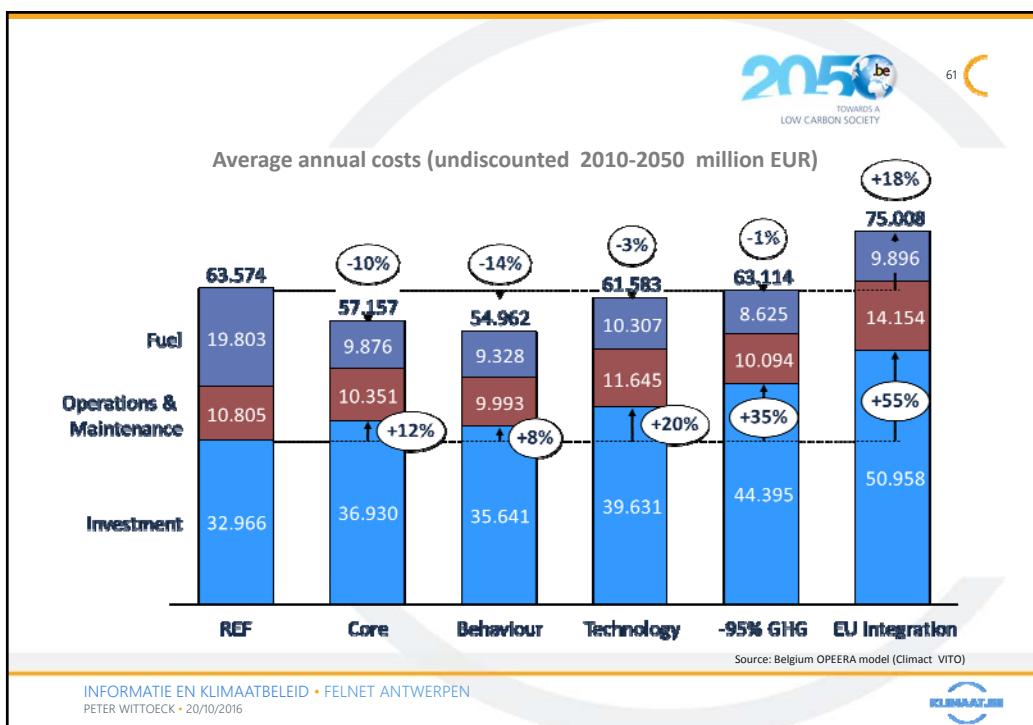
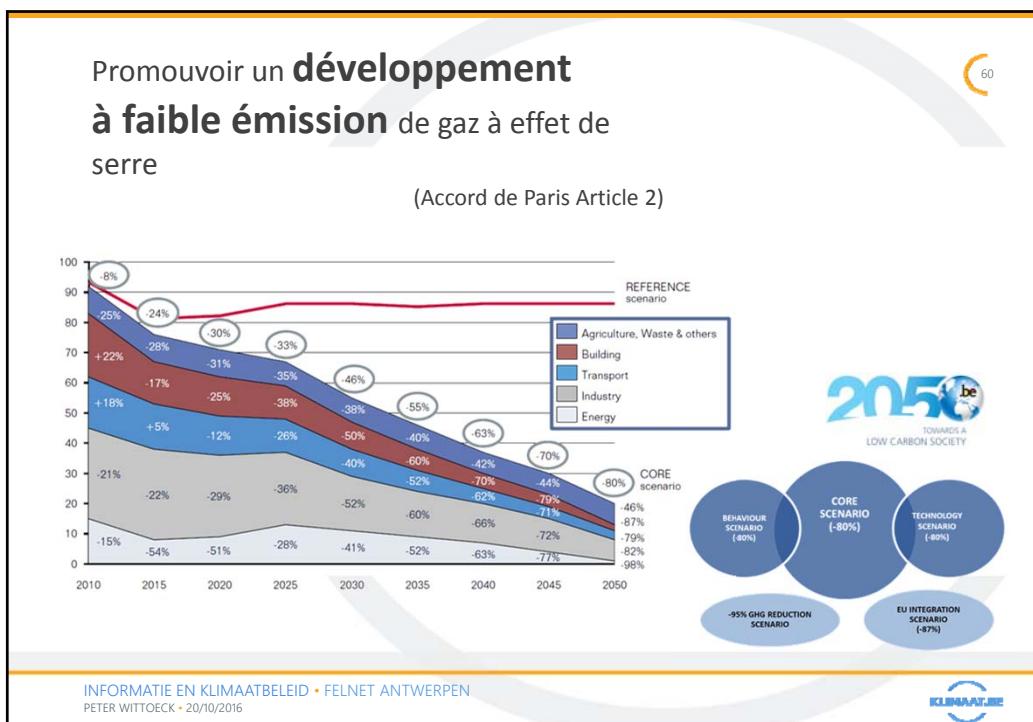
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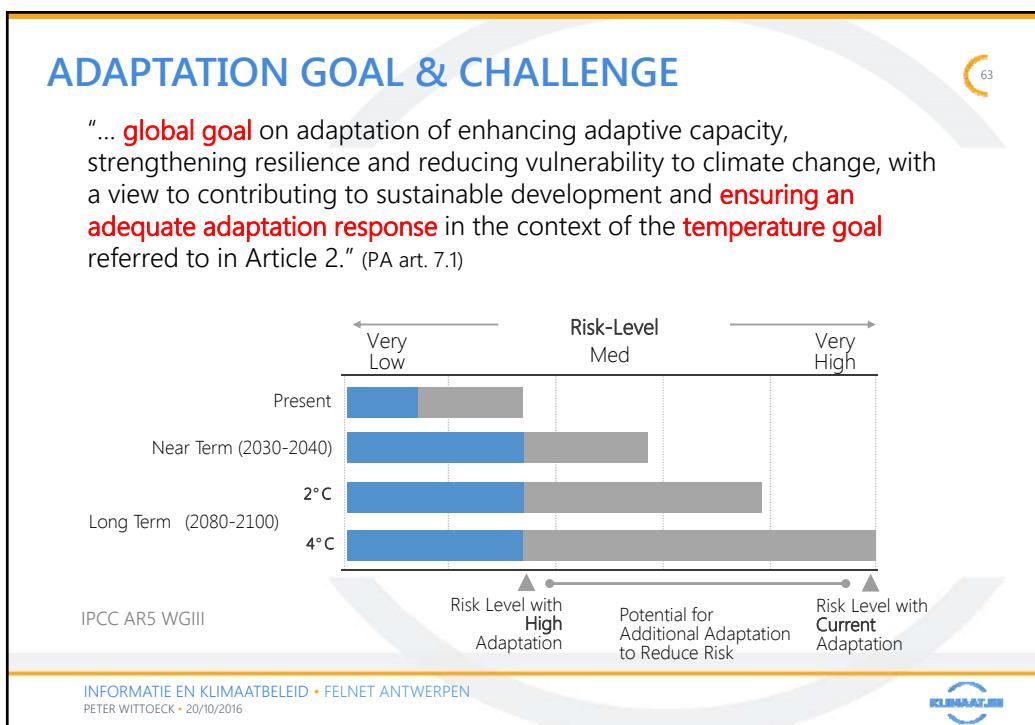
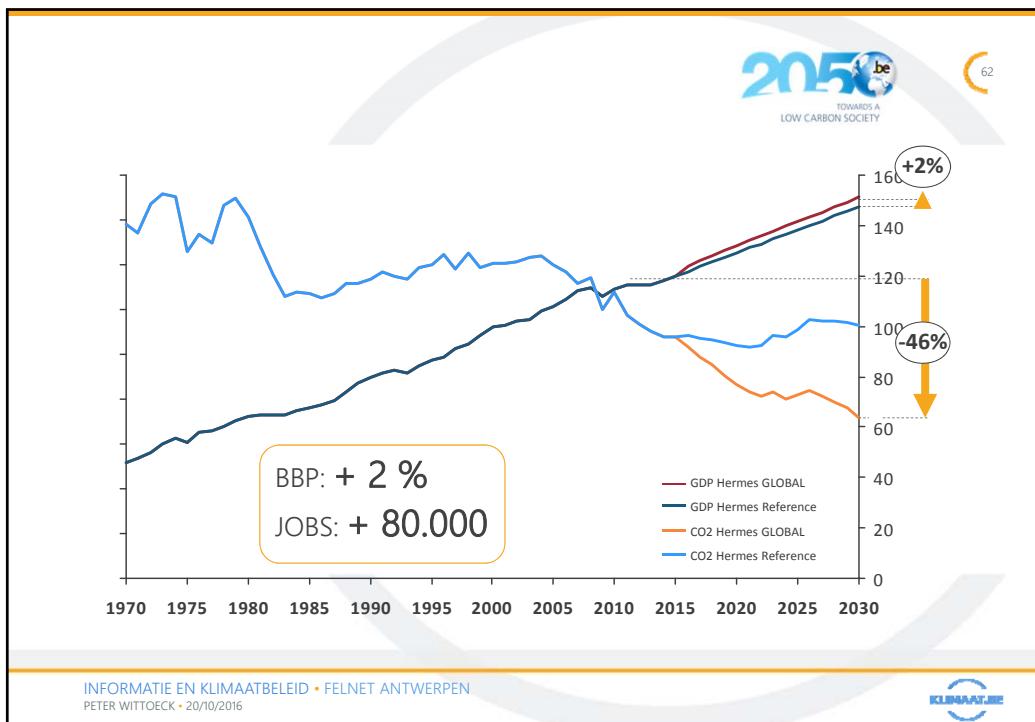
- "global **peaking** of greenhouse gas emissions **as soon as possible**, recognizing that peaking will take longer for developing country Parties"
- "undertake **rapid reductions** thereafter in accordance with **best available science**" **IPCC: -50 % by 2050**
- "achieve a **balance between anthropogenic emissions by sources and removals** by sinks of greenhouse gases in the second half of this century" **= Climate neutrality after 2050**

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## FINANCE

**Goal**

- "Making **finance flows consistent** with a pathway towards **low greenhouse gas emissions** and **climate resilient development**." (PA art. 2.1 c)
- "a **progression** beyond previous efforts" (PA art. 9.3)
- "a **balance** between **adaptation and mitigation**" (PA art. 9.4)

**Scale and sources**

- Developed country Parties committed to jointly providing **USD 100 billion annually through 2025**. Prior to 2025, a new collective quantified goal from a floor of USD 100 billion per year shall be set (Decision CP.21/1 § 54)
- "mobilizing climate finance from a **wide variety of sources**, instruments and channels, noting the **significant role of public funds**" (PA art. 9.3)

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## FINANCE

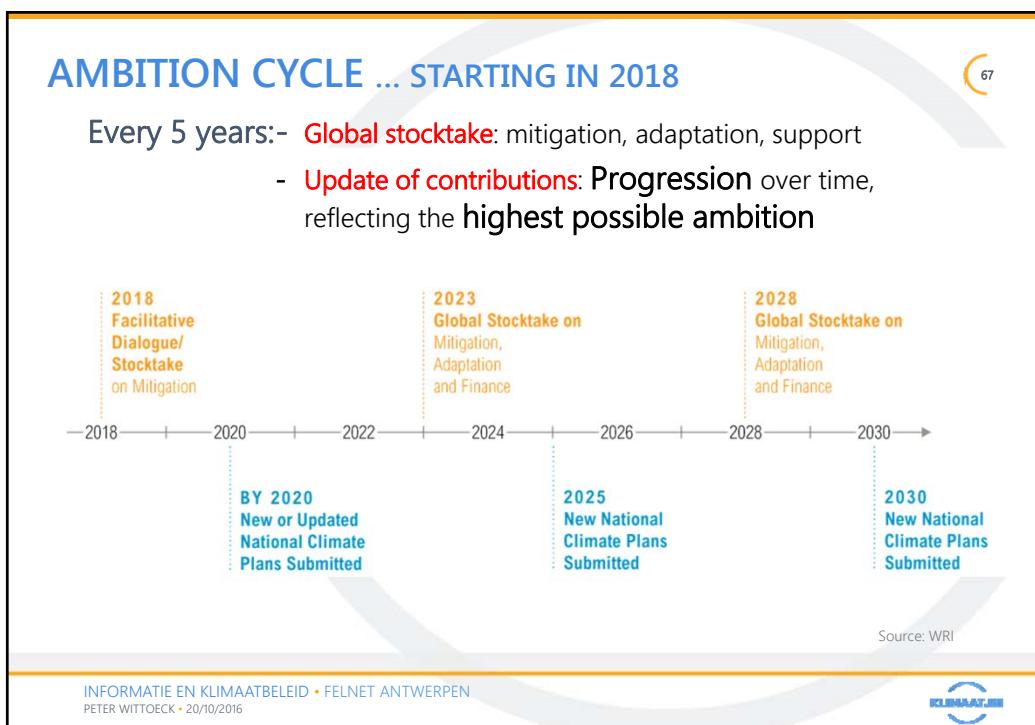
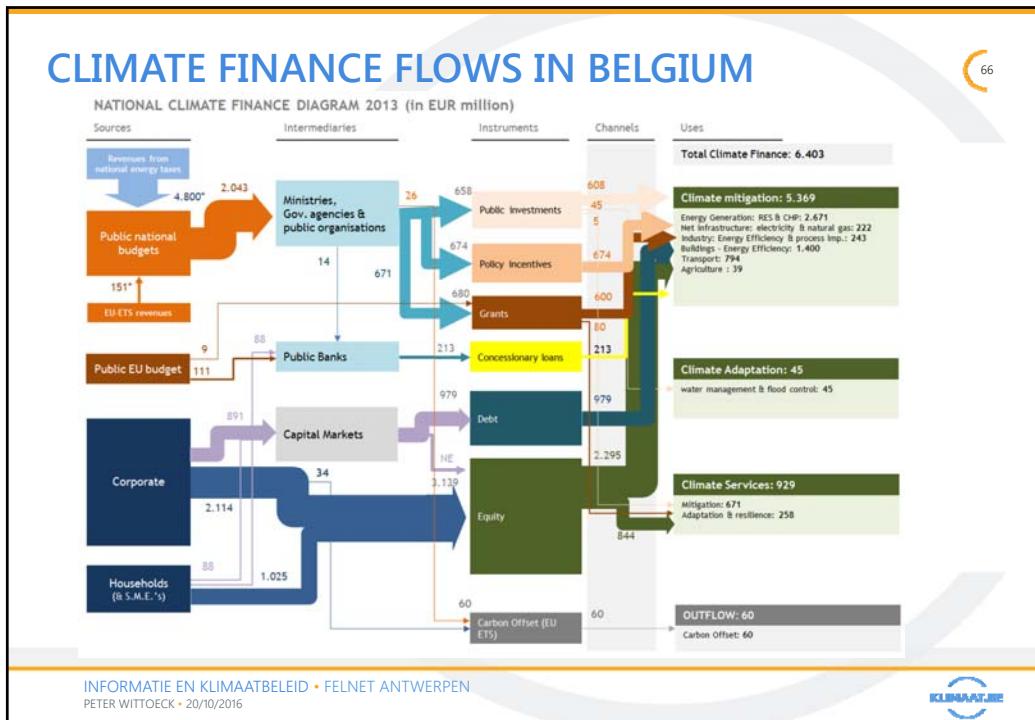
Category	2013 (bn)	2014 (bn)
Bilateral public finance	22.5	23.1
Multilateral public finance (attributed)	15.4	20.4
Export credits	1.6	1.6
Private co-finance mobilised (attributed)	12.8	16.7
<b>Total:</b>	<b>52.2 bn</b>	<b>61.8 bn</b>

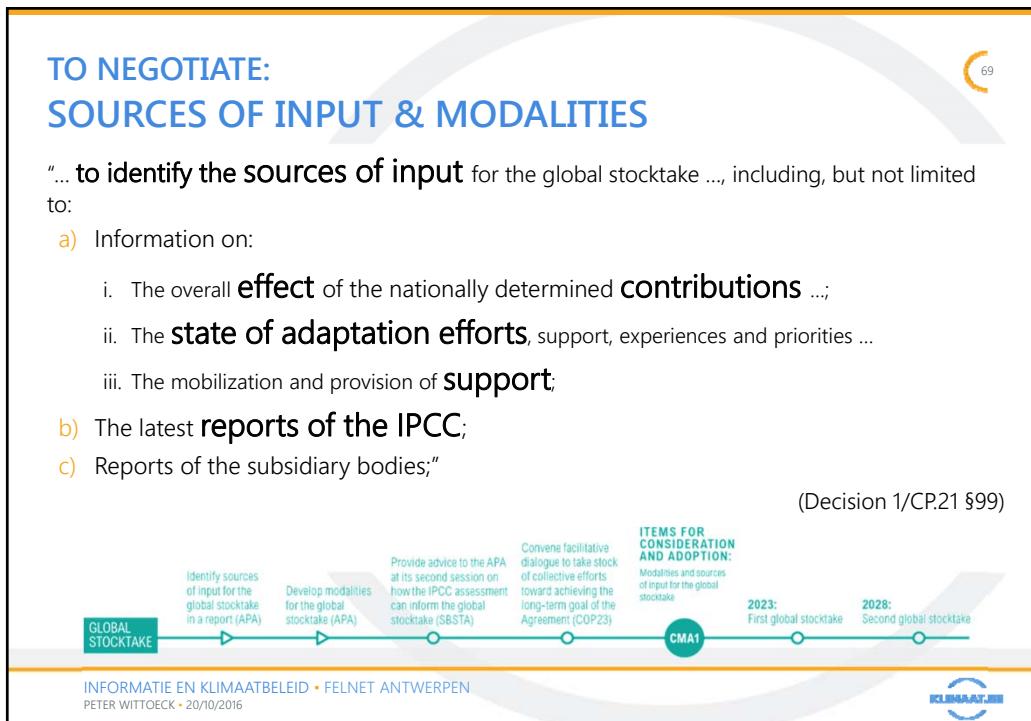
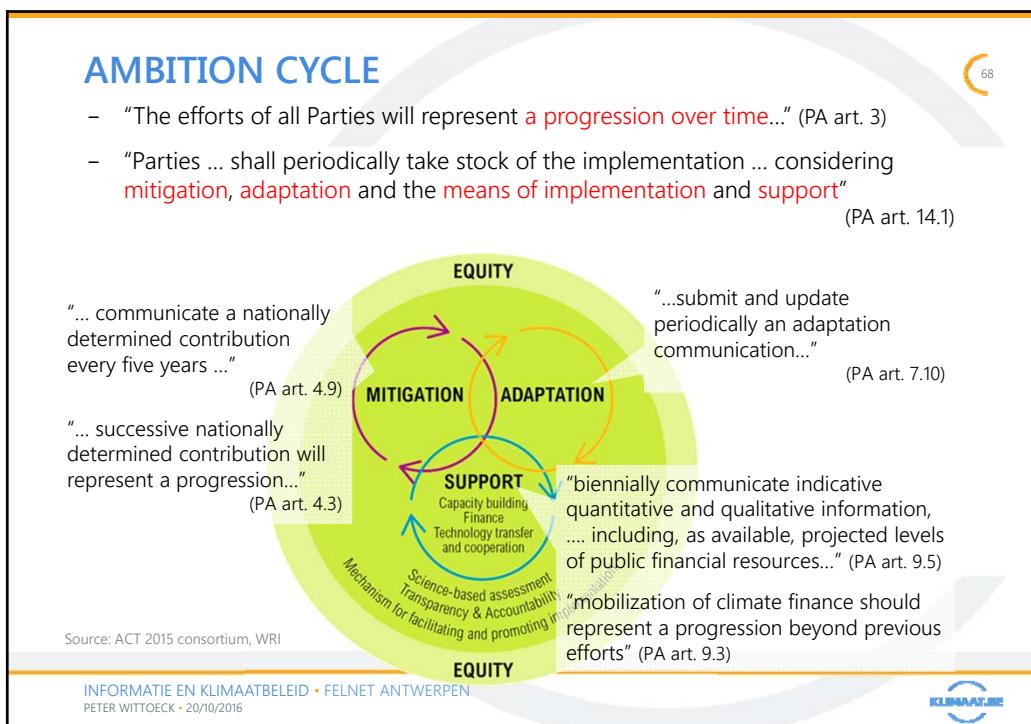
OECD/CPI « Climate finance in 2013-2014 and the USD 100 billion goal »:

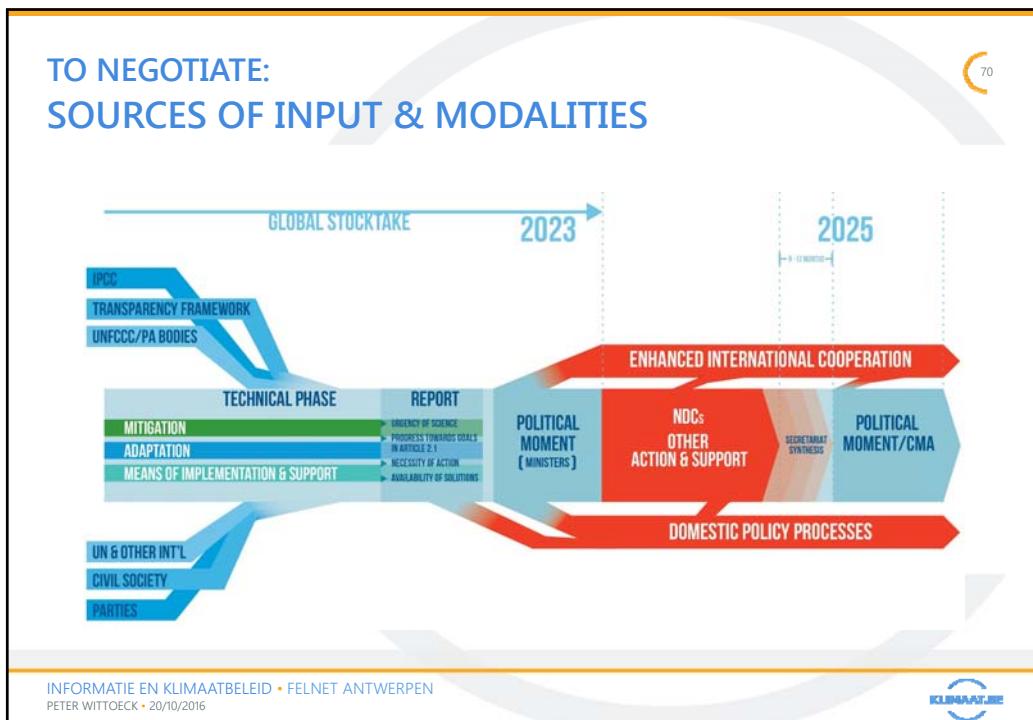
- WB/IMF 2015 Annual meeting (Lima October 2015)
- **62 bn USD in 2014** up from 52 bn USD in 2013
- Lots of efforts still need to be done on **MRV of (private) climate finance**.

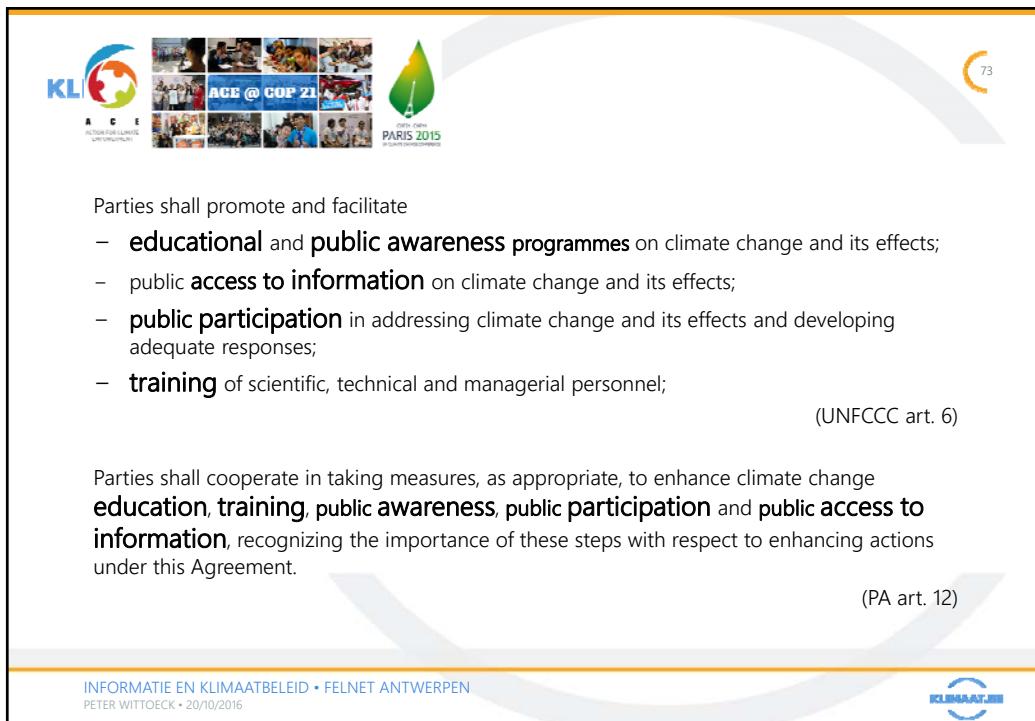
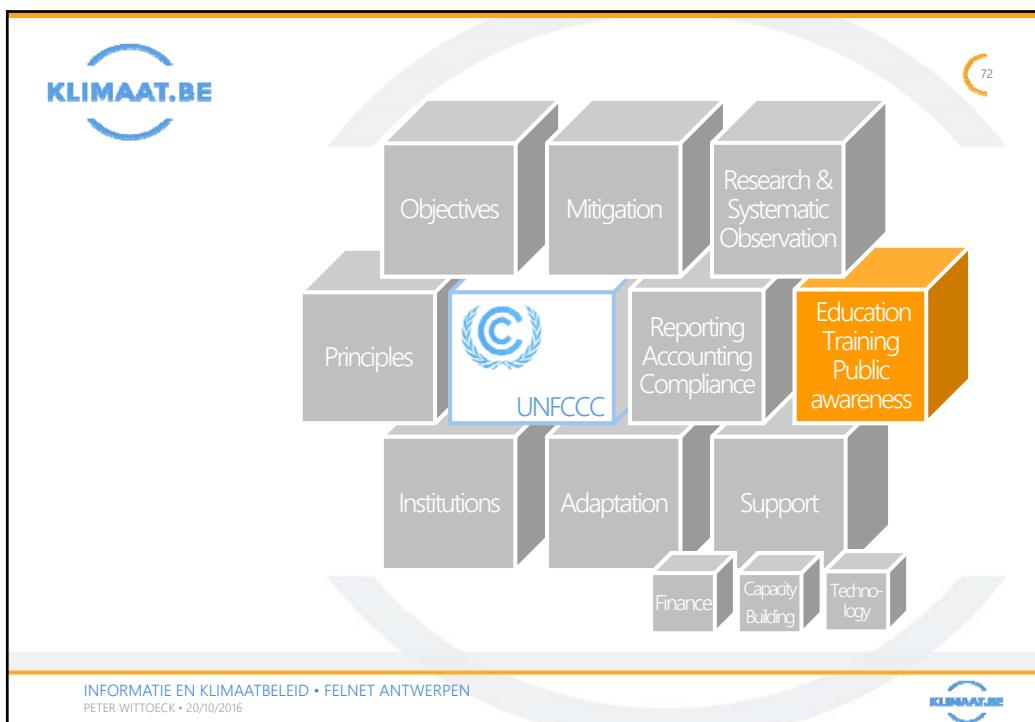
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Actuele en betrouwbare informatie voor

- het **grote publiek**
- professionele **stakeholders**
- **pers**

Over:

- de **klimaatproblematiek**  
(oorzaken en gevolgen)
- het **klimaatbeleid** (internationaal, EU, België)
- officiële **rappoarten, studies en andere publicaties**
- **oplossingen**
- enz...



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## PUBLIEKENQUÊTES

### PEILINGEN BIJ HET GROTE PUBLIEK (ELKE 4 JAAR)

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1. De **kennis** over de klimaatproblematiek
  - Weet men welke de grote uitdagingen zijn?
  - Kan men de oorzaken en gevolgen van de klimaatverandering correct inschatten?
  - Is men op de hoogte van de financiële steunmaatregelen?
  - Weet men waar informatie beschikbaar is?
2. De **subjectieve interpretatie**
  - Hoe ervaart men de problematiek?
  - Wordt die als een urgentie ervaren?
  - Hoe worden de inspanningen van het beleid ervaren?
  - Leeft het gevoel dat eenieder een steentje kan bijdragen?
3. De **persoonlijke attitude / bereidheid** er zelf iets aan te doen
  - Wil men straat zich zelf op dat vlak engageren?
  - Is men bereid daarvoor financiële inspanningen te leveren?



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**PUBLIEKSENQUÊTES**

## HEADLINES 2013

**Perception**

- CC = problème **urgent: 80%**
- les **plus grands efforts** sont attendus dans **l'industrie (91%)** / le transport de marchandises (77%) / le transport de passagers (58%).... les familles (seulement 39%)
- ± **50% de satisfaction** des efforts des pouvoirs publics

**Politique climatique**

- renforcement du rôle de **coordination du fédéral**: **51%**
- **meilleure collaboration** entre pouvoirs : **63%**
- **loi climat** : **45%**
- besoin d' une **vision bas carbone**: **56%**
- revenus de la vente aux enchères des droits d'émissions => la politique climatique: **53%**
- **réforme fiscale** : shift charges sur le travail => taxe sur les émissions des GES : **37%**

**Communication**

- **64%** veut être informé par le fédéral (= source fiable)

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## STAKEHOLDERCONSULTATIES

- Werkgevers
- Werknemers
- NGO's
- Academici
- Adviesorganen
- ...

CCIM Stakeholder Consultation post Paris, Brussel 11/3/2016

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## STAKEHOLDER WORKSHOPS SCENARIO'S 2050



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	ALV - LSC AGC Agoria	Philippe Cornelis GuyVanmarcke Patrick Vandenbossche Philippe Callewaert Rudy Lens Roland Mortier Andre De Herde André Guns Georges Liebecq Liesbeth Peeters Luc Dedeijne Lieven Demolder Peter Van Bossuyt Bart Vleeschouwers Gillabel Jeroen Jeroen Gillabel Mathias Bientman Sara Van Dijck Mrs Aerts Philippe Barette B. Atanasiu M. Denys To Simons Marco Mensink
	Aperam Arcelor Gent Architecture et Climat -UCL (Excused) AWAC	
	Belgocontrol Benergie Biogas-E Boerenbond	
	Bond Beter Leefmilieu	
	Brick federation Bruxelles Mobilité-Mobiel Brussel Building Performance Institute Europe (BPIE) Carmeuse CeDuba/DuWoBo CFPI ...	
		

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**ONDERWIJS EN VORMING**

### CLIMATE CHALLENGE




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	<b>In de weer voor het klimaat:</b> educatief dossier voor leerlingen tussen 9 en 14 jaar	<a href="http://www.climatechallenge.be">www.climatechallenge.be</a>	interactieve, educatieve webtool om je eigen scenario te creëren voor een koolstofarme maatschappij in 2050
		<ul style="list-style-type: none"> <li>• Online lesmateriaal, achtergrondinfo en -cijfers</li> <li>• Doe-activiteiten</li> <li>• Interviews met wetenschappers, politici, bedrijfsleiders, mensen uit het Zuiden</li> <li>• oplossingen en de rol van overheden, bedrijven en individuen!</li> </ul>	aansporen tot debat over de wijze waarop we kunnen evolueren naar een koolstofarme maatschappij tegen 2050.

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## ONDERWIJS EN VORMING

**My 2050**

Site éducatif interactif pour les écoles (3ème degré du secondaire) (et le grand public)

Objectifs:

- sensibiliser pour les défis/le besoin d'une transition bas-carbone
- faire réfléchir sur les leviers et les ambitions
- en développant des scénarios

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## ONDERWIJS EN VORMING

**My 2050**

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**CONSUMENTEN  
ENERGIEVRETERS.BE**

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11 modules :

- isolation du toit et des murs fenêtres
- éclairage
- appareils électroménagers + TV
- voitures

Objectifs:

- estimer la consommation (kWh) des appareils en € et en CO<sub>2</sub>
- estimer la déperdition de chaleur à travers les matériaux d'isolation
- aider les visiteurs à sélectionner de nouveaux appareils et isolations

Inclut le guide CO<sub>2</sub> de la voiture





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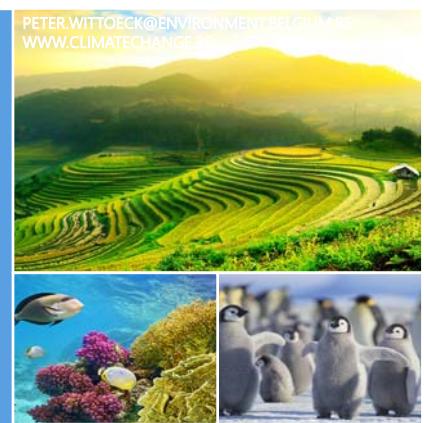
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**be**

DANK U VOOR UW AANDACHT

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