

Climate Plan

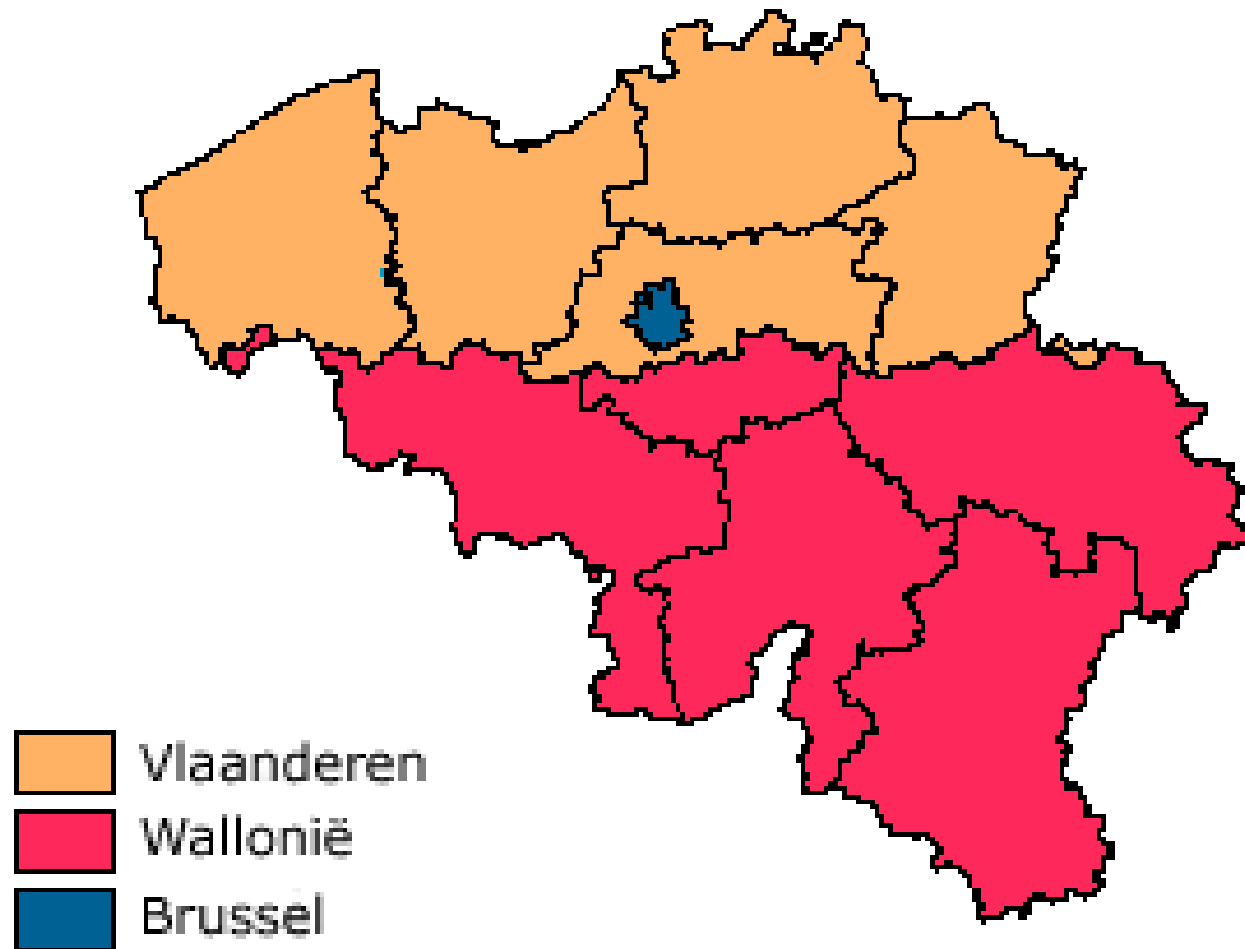
Case: Flemish agriculture

Veerle Campens
Department for Agriculture and Fisheries,
Flanders, Belgium

Content

- ➔ **Dealing with CC in BELGIUM**
- ➔ **Dealing with CC in FLANDERS**
- ➔ **Dealing with CC in AGRICULTURE**
- ➔ **Measures taken to reduce GHG in
Agriculture**

Belgium



Belgium: organisation

- ➔ Coordination Committee on International Environmental Policy (CCIEP)
- ➔ Cooperation agreement on climate policy (2001)
- ➔ National Climate Commission (NCC)
- ➔ Burden sharing of -7,5% (2004):
 - ⇒ Flemish Region: -5,2%
 - ⇒ Walloon Region: -7,5%
 - ⇒ Brussels Capital Region: +3,475%
 - ⇒ Federal government: -4,8Mton + purchase allowances
- ➔ National Climate Plan 2002 – 2012
- ➔ No sectoral targets but Climate Action Plans per sector

Flemish target in figures

Emission 1990	88,0 Mton CO ₂ -eq
Target (-5,2%)	83,4
Prognoses 2010 without CPP (+18%)	105,6
To reduce	22,2

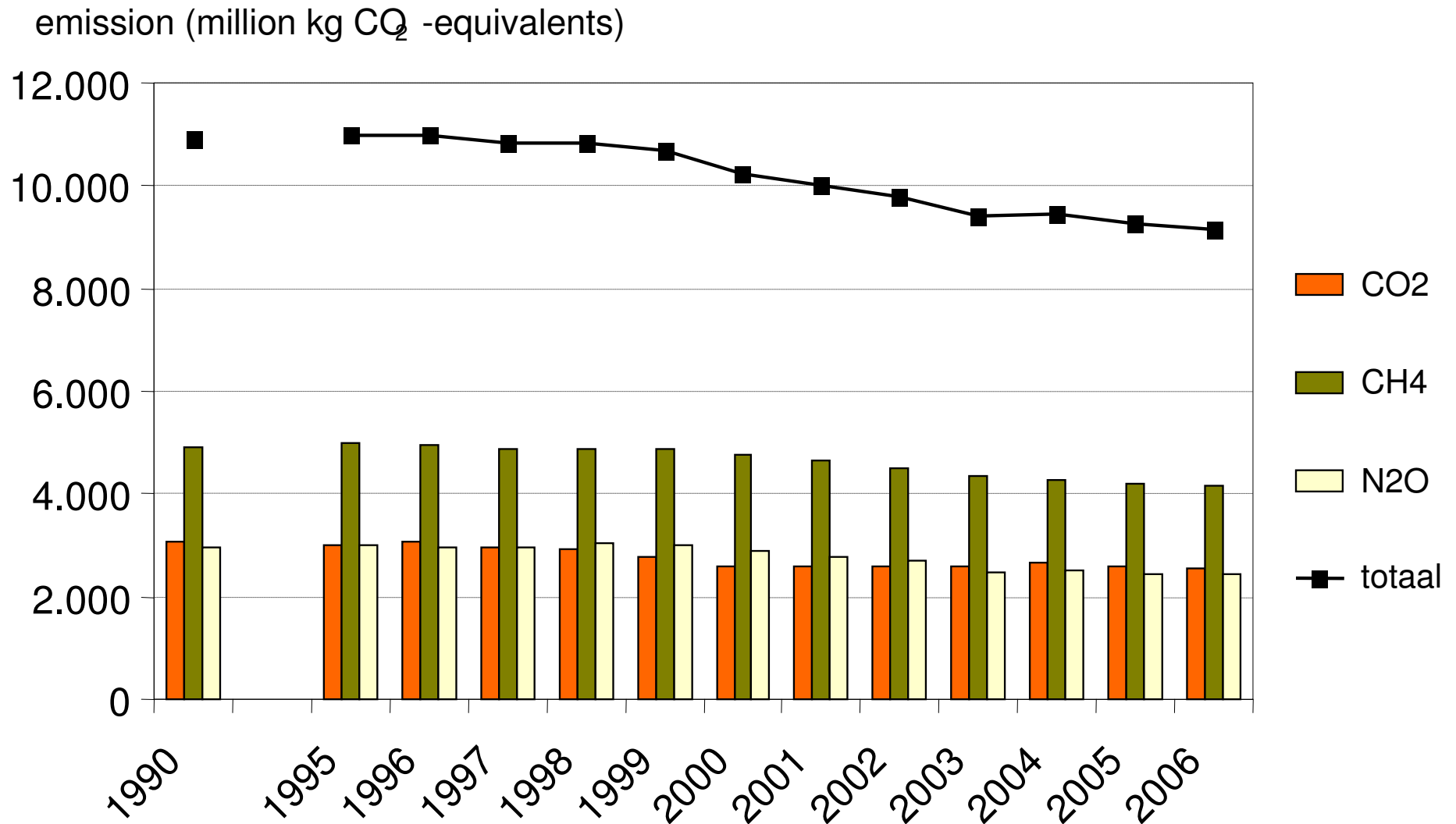
The Flemish Climate Policy Plan

- ➔ First FCPP 2002-2005
- ➔ 06/06/'05: Climate Conference
- ➔ 20/07/'06: second FCPP 2006-2012
 - ➔ 18 Mton internal reduction (81%)
 - ➔ 4,3 Mton flexible mechanisms (19%)
- ➔ Follow up instruments:
 - ➔ Database with all the measures
 - ➔ 6-monthly report on the evolution and possible problems in implementation
 - ➔ 2-yearly progress report

Agriculture

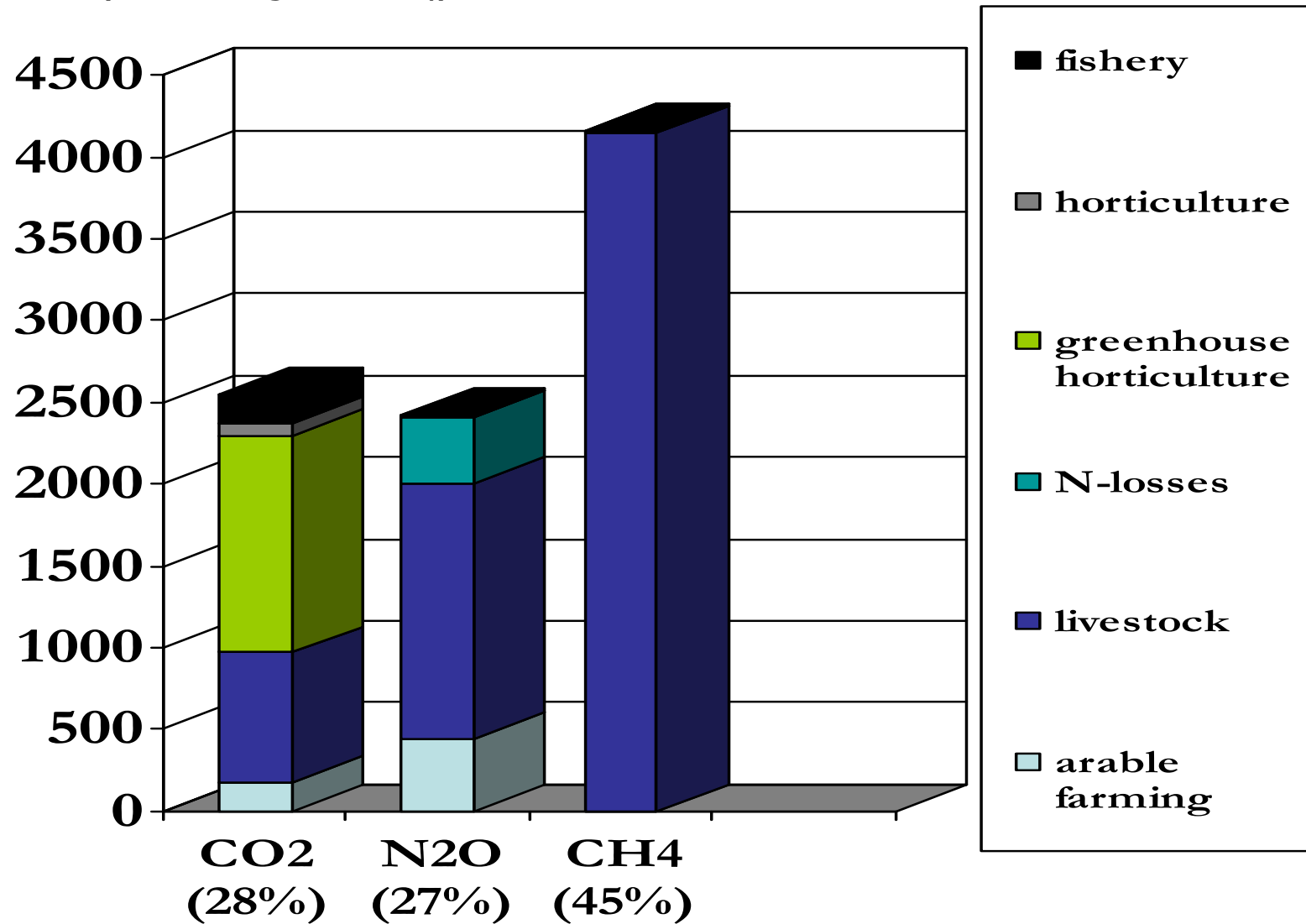
- ➔ 9,1 Mton CO₂-equivalents in 2006
- ➔ 10,7% of total GHG emissions in Flanders comes from agriculture
- ➔ -14,5 % compared to 1990:
 - ➔ Livestock: from 7,4 Mton CO₂-eq (1990) to 6,3 Mton(2006) or -14%
 - ➔ Greenhouse horticulture: -38% N₂O; -22% CO₂
 - ➔ Use of chemical fertilizers: - 31% N₂O
 - ➔ Transport fuels arable farming: +19% CO₂, CH₄, N₂O
- ➔ Changes in C-stock: +19% CO₂
- ➔ 2nd Climate Action Plan agriculture 2006-2012: -1 Mton **or -21%! (livestock)**
- ➔ Working party on Climate Action Plan for agriculture

Evolution of agricultural emissions



Emissions in 2006 from Flemish agriculture

Emission (million kg CO₂-eq)



Agricultural measures: greenhouses

- ➔ Energy saving measures in greenhouses
 - ➔ Investment support (40-30%)
 - ➔ Designated areas to build greenhouse cultivation zones
- ➔ 75% of energy use in greenhouses = natural gas + other more sustainable energy sources (2013)
- ➔ CHP in greenhouse horticulture
 - ➔ Investment support
 - ➔ 185 Mwe by 2012
 - ➔ Extra CHP-certificates when CO₂ is recuperated
 - ➔ Green CHP-installations: 208 GWhe (biogas) installed

Agricultural measures: manure policy

- ➔ Tuning the manure policy (Nitrate Directive) to the Kyoto targets:
 - ➔ Tradable Nutrient Emission Rights + every time reduced when selling
 - ➔ Processing surplus of manure
 - ➔ New stables are emission poor
 - ➔ Nutrient poor feed
 - ➔ Allowed application standards for fertilizer use
 - ➔ Application of fertilizer in emission poor way

Agricultural measures: general

➔ Renewable energy:

- ➔ Production and use of biomass
- ➔ Knowledge centre on sustainable energy use for farmers:
energy consultants + energy technologist
- ➔ Centre of expertise for fresh woody biomass (target:100 ha)
- ➔ Investment support

➔ Afforestation of agricultural land (523ha in '06)

➔ Decrease of livestock

Energy crops



Rape seed

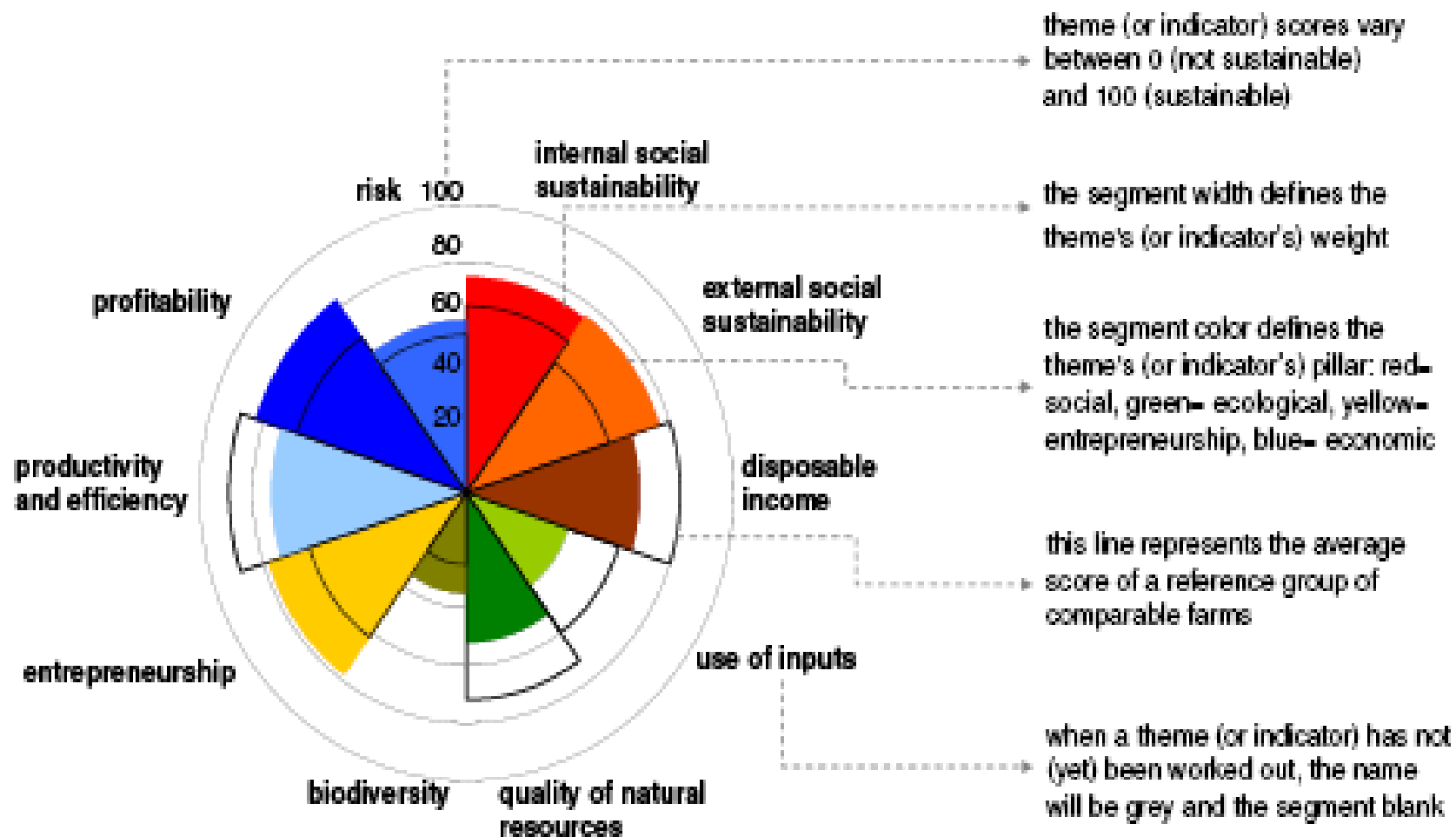
harvest 3-years old salix



Agricultural measures: general

- ➔ Study on adaptation to climate change for agriculture
- ➔ Building awareness with people and farmers:
 - ➔ Folders, conferences, seminars, discussion groups, demonstrations, ...
 - ➔ Advising with environmental bookkeeping
 - ➔ Advising with MOTIFS

MOTIFS



Thank you for your attention.



FCCP :
www.Ine.be/themas/klimaatverandering/klimaatconferentie

