



# Creating Landscapes for windenergy in the East Flanders Core Area

Fachkongress 16 juni 2016





### Overview

- 1. The East Flanders Core Area ('region Ghent')
- 2. Creating landscapes for windenergy:
  - A framework and a spatial plan was needed...
  - On speaking terms with windfirms!
  - Creating envolvement = creating value ©
  - Upgrade the environment!
- 3. Recommendations en perspectives







Near Brussels, Antwerp, and Louvain The East Flanders Core Area (region Ghent)





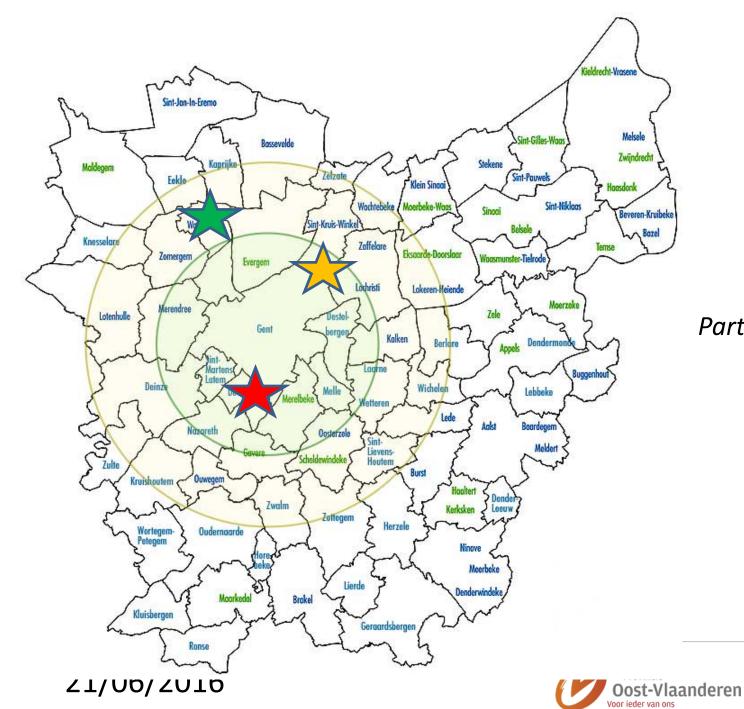








### The East Flanders Core Area





Part of the 'Central part of Flanders'



### The East Flanders Core Area

- In de centre of the province of East Flanders...
- Between the local level (municipalities) and the national/regional level (Belgium and Flanders)
- Not a stadsregio... yet!
- Region of 620 000 inhabitants; 960 km²; 21 municipalities
- Port of Ghent; knowledge institutes, a lot of infrastructures and rivers..





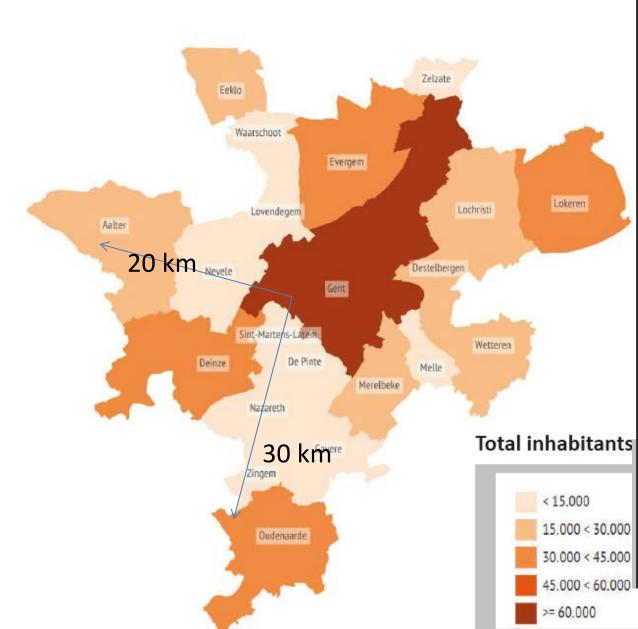








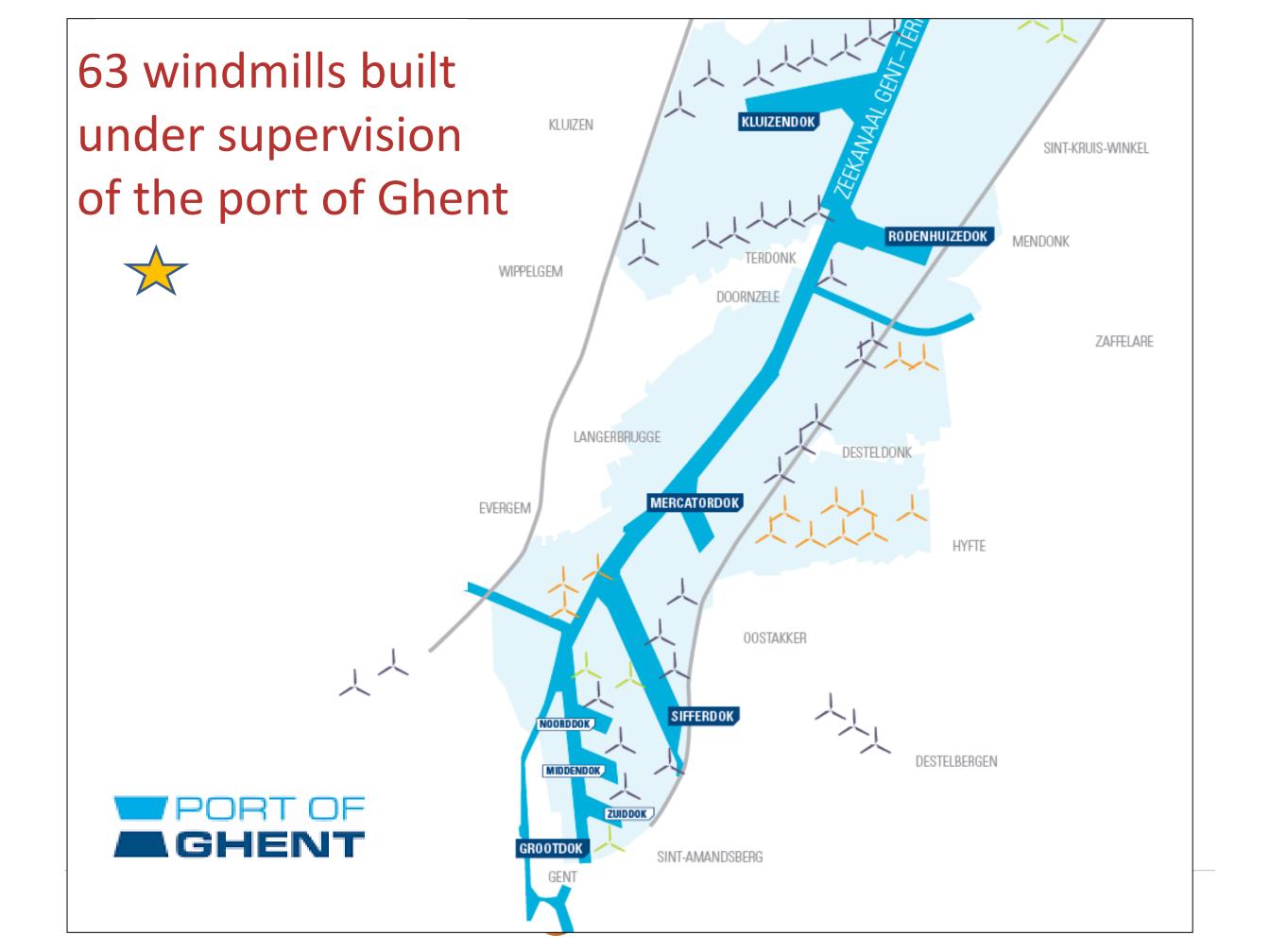
#### East Flanders Core Area



Surface of 960 km<sup>2</sup> 21/06/2016

Municipality	Distance to Ghent (in km)	Inhabitants [2015]	Surface (in km²)	Charactaristics
Aalter	20	20.053	82	large municipality
De Pinte	9	10325	18	small municipality
Deinze	17	30.426	76	small city
Destelbergen	5	17897	27	small municipality
Eeklo	19	20.675	30	small city
Evergem	7	34.461	75	large municipality
Gavere	15	12562	31	small municipality
Gent	0	252.962	156	central city
Lochristi	9	22.107	60	large municipality
Lokeren	19	40.544	68	small city
Lovendegem	10	9530	19	small municipality
Melle	8	11129	15	small municipality
Merelbeke	7	24114	37	small municipality
Nazareth	14	11535	35	small municipality
Nevele	13	12061	52	small municipality
Oudenaarde	25	30.804	68	small city
Sint-Martens-Latem	8	8504	14	small municipality
Waarschoot	14	7891	22	small municipality
Wetteren	12	24.835	37	small city





# Creating landscapes for windenergy



https://vimeo.com/147593029



# Creating landscapes for windenergy

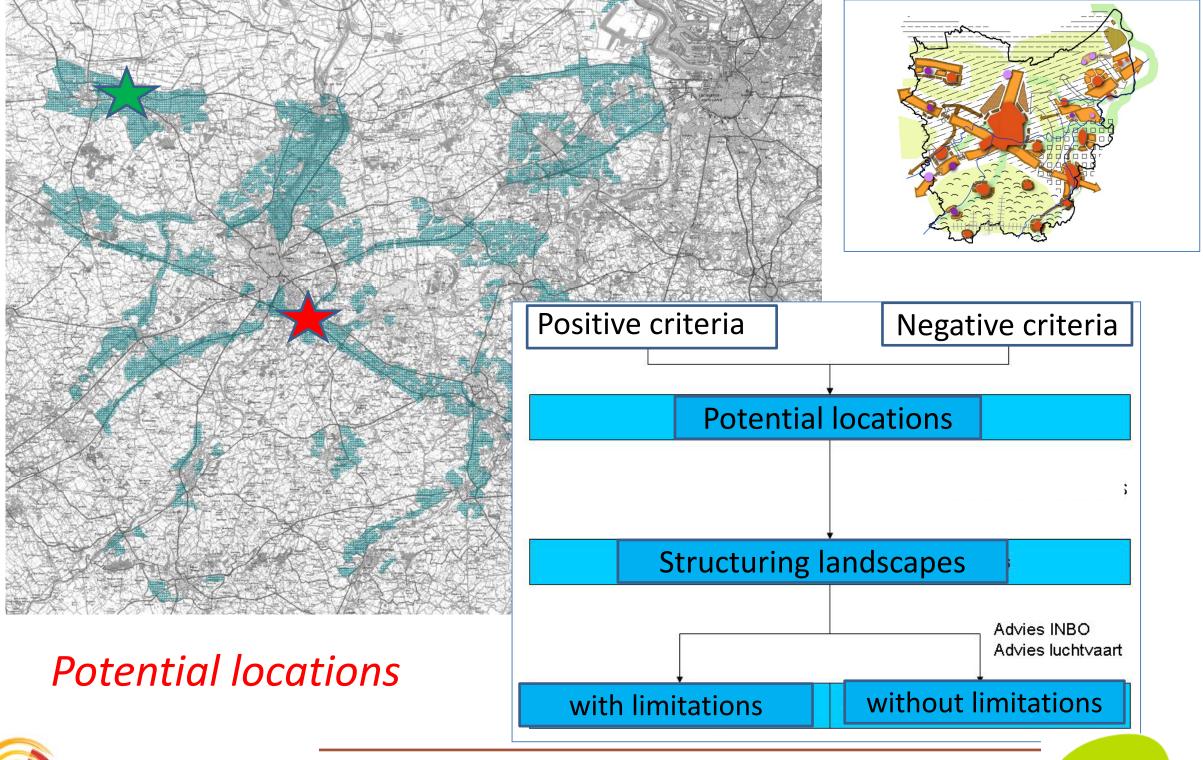
- 1. A framework was needed...
- 2. Two plans: Eeklo-Maldegem and E40
  - Study of the landscape
  - Environmental study
  - Two spatial plans
- 3. On speaking terms with windfirms!
- 4. Creating envolvement = creating value ©







# 1. A framework for windenergy

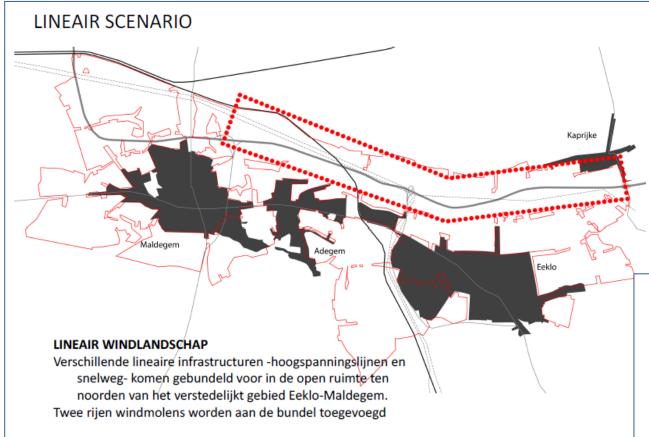








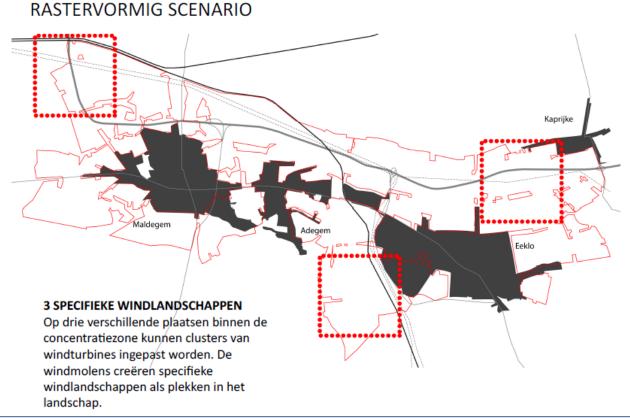
### Studie of the landscape Eeklo-Maldegem







#### Rasterscenario



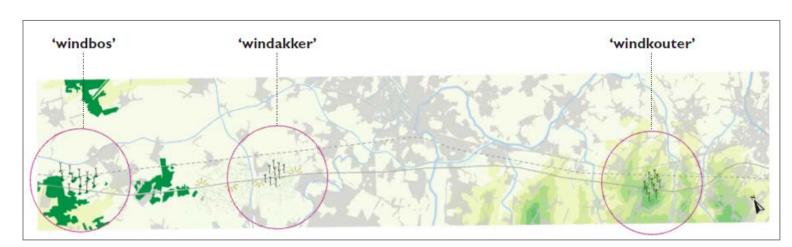






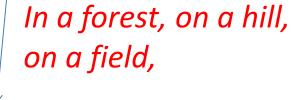
### Studie of the landscape E40

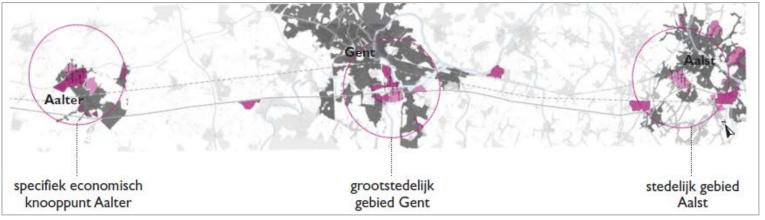


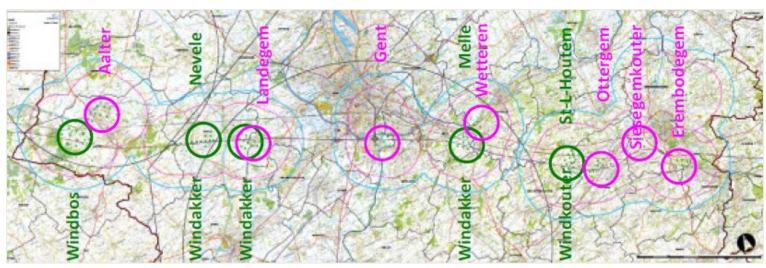


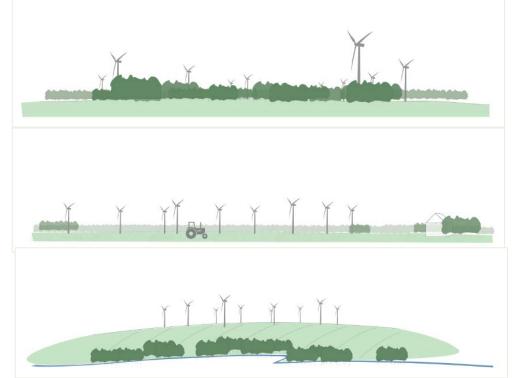
Different scenario's, different models

On industrial areas of in open space









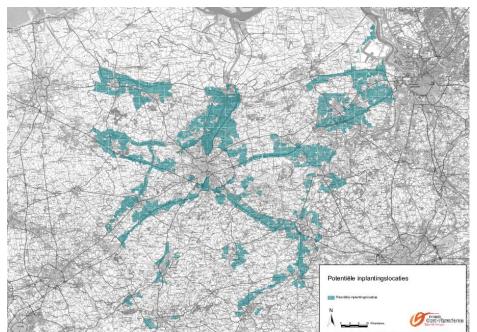






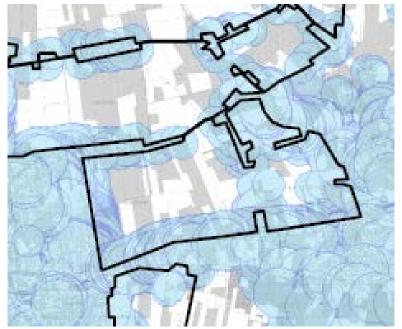
### **Environmental study**





Framework

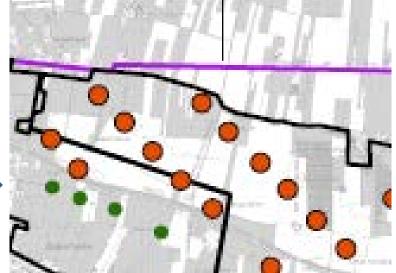
#### Buffer to houses



Environmental impact on a theoritical basis

Minimal distance

Maximum windenergy









### Environmental study





### Regulation

#### Authorized planMER

Gebiedsbestemming bij vergunning		Richtwaarde in LAeq,15 min dB(A) in open lucht		
	Overdag	's avonds	's nachts	
	7u-19u	19u-22u	22u-7u	
1° gebieden voor verblijfsrecreatie	44	39	39	
2a° gebieden of delen van gebieden, uitgezonderd wo ongebieden of delen van woongebieden, gelegen op minder dan 500m van industriegebieden	50	45	45	
2b°woongebieden of delen van woongebieden op minde r dan 500m gelegen van industriegebieden	48	43	43	
3a° Gebieden of delen van gebieden, uitgezonderd wo ongebieden of delen van woongebieden, op minder dan 500m gelegen van gebieden voor KMO, van dienstverleningsgebieden of van ontginningsgebieden	48	43	43	
3b°Woongebieden of delen van woongebieden, op mind er dan 500m gelegen van gebieden voor KMO, van dienstverleningsgebieden of van ontginningsgebieden	44	39	39	
4°Woongebieden	44	39	39	
5° Industriegebieden, dienstverleningsgebieden, geb ieden voor gemeenschapsvoorzieningen en openbare nutsvoorzieningen en ontginningsgebieden tijdens de ontginning.	60	55	55	
5bis° Agrarische gebieden	48	43	43	
6° Recreatiegebieden, uitgezonderd gebieden voor ve rblijfsrecreatie	48	43	43	
7° Alle andere gebieden, uitgezonderd: bufferzones, militaire domeinen en deze waarvoor in bijzondere besluiten richtwaarden worden vastgelegd	44	39	39	
8°Bufferzones	55	50	50	
9° gebieden of delen van gebieden op minder dan 500 m gelegen van voor grindwinning bestemde ontginningsgebieden tijdens de ontginning	48	43	43	

Maximum for noice

Maximum for umbra necesary stillstand module Max. 8u in a year and max. 30min in a day

Veiligheidsstudie verplicht bij elke projectaanvraag voor windturbines.

Belang van meldpunt voor klachten!!!

Procoro nadrukt belang van **adequaat handhavingsbeleid** => gemakkelijk en toegankelijk meldpunt, opgericht en operationeel gehouden door Provinciebestuur







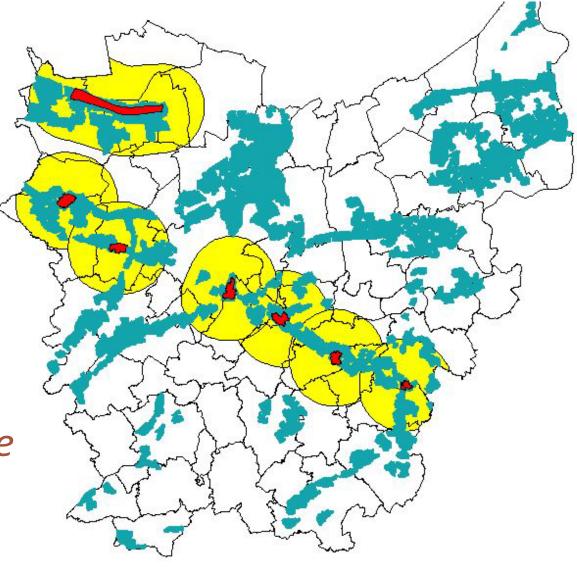
### Two spatial plans



- Area for windturbines (red)
- 'Effected' area (800m)
- Area where windturbines are forbidden (yellow)

#### Note!

Principe of concentration en contrast created envolvement, because it became clear where the turbines were coming, and where not!

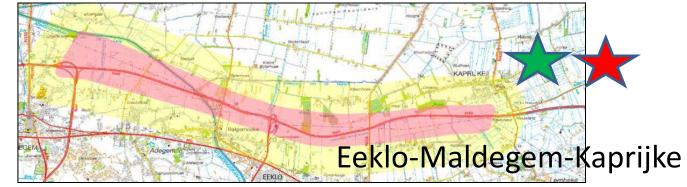


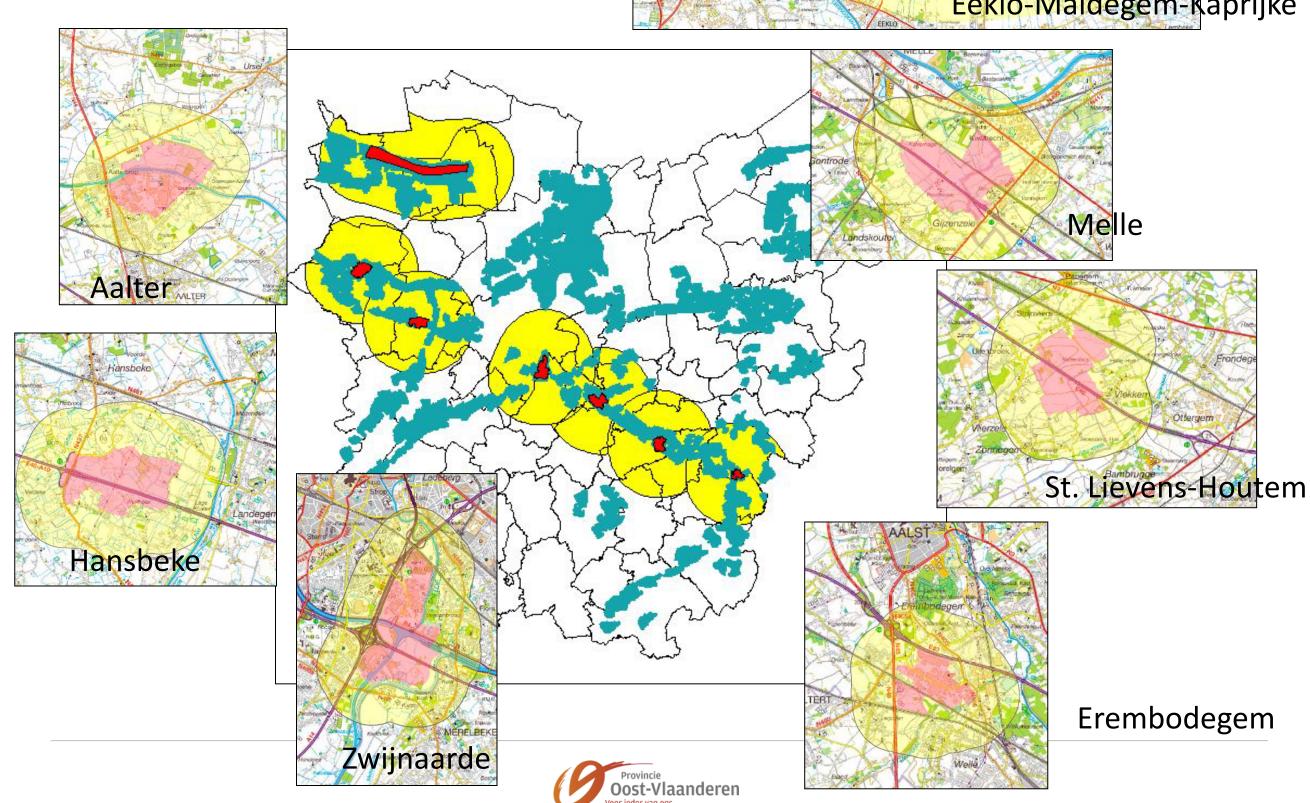






### Two spatial plans





# 2. On speaking terms...

# Electrabel

























### We agreed on...

- 1. We started giving information about our intention and the process of planning locations for windenergy.
- 2. We asked for a 'stand still' in the area.
- We asked them to be transparant about projects that they planned in the area => one vision/project.
- 4. We asked them to participate in fund for the environment and to create the opportunity for locals en local authorities to become owner of the project (envolvement!).







### We agreed on...

- 5. We asked them to do a common environmental screening.
- 6. Now we ask them to ask the authorization at the same time (clarity of the total project area)...
- 7. And to have a common 'help desk', common communication, etc.

Coöperative attitude to have as much energy as possible in the area for windturbines





# 3. Creating envolvement

- Participation and transparant communication

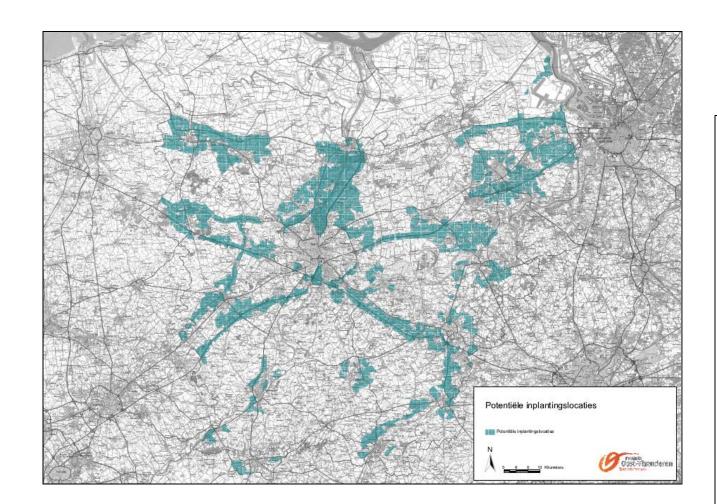
- 2. Renewable energyscan
- 3. Towards a shared ownership...
- 4. Creating an fund to improve the environment (800m around the concentrationzone)





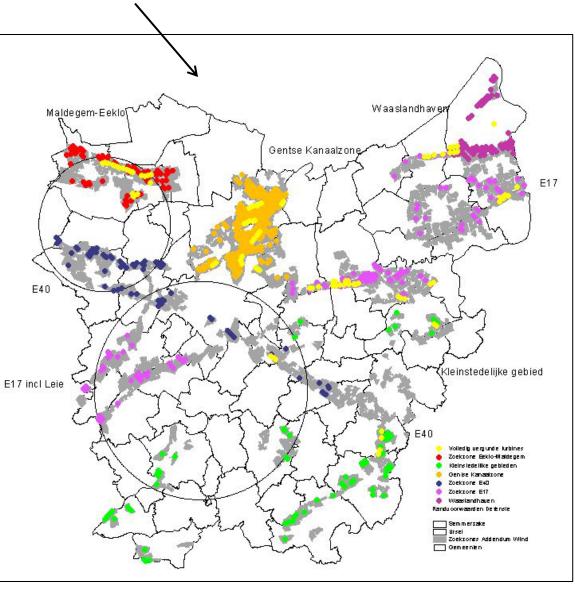


### Renewable energyscan



Zoekzone	Aantal volledig	Inschatting van	Gerealiseero
Zoekzone	vergunde turbines	het potentieel	%
Gentse Kanaalzone	25	90	28
Waaslandhaven	7	40	18
E17-netwerk	30	60	50
Eeklo-Maldegem	21	45	47
E40 van Aalter tot Aalst	3	46	7
Kleinsted. Gebieden en econ. knpt.	6	19	32
Totaal	92	300	31

#### Addendum Wind 2009



300 windturbines in O.VI.

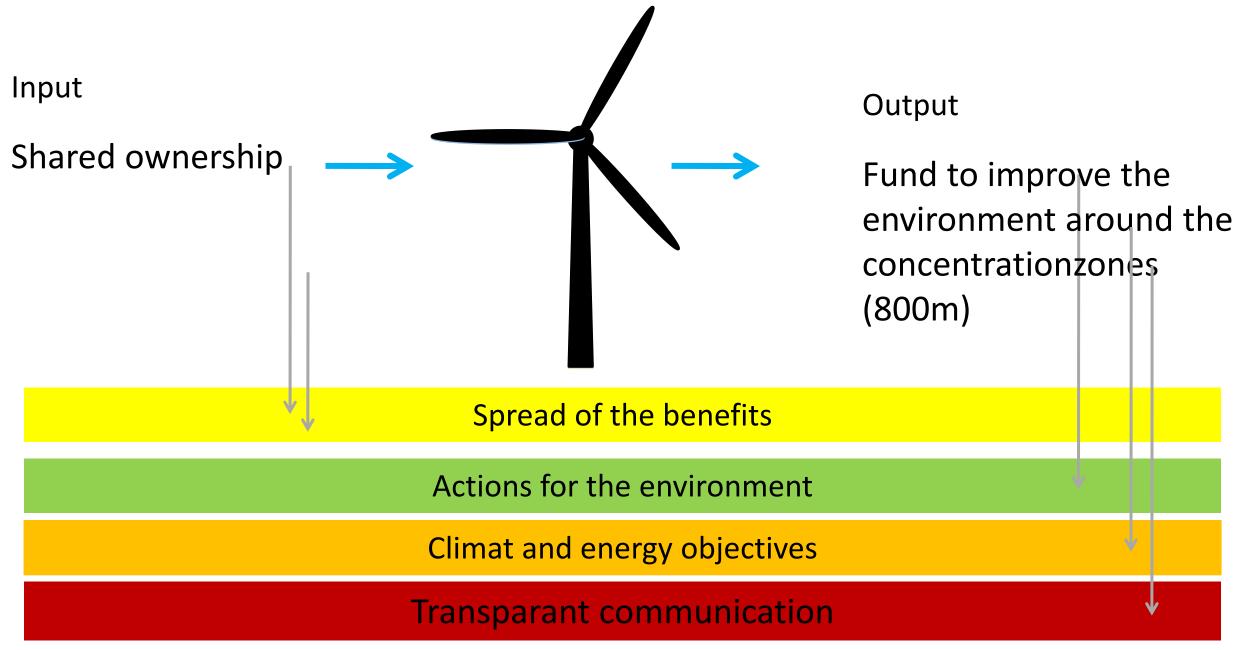






## Model against 'nimby'



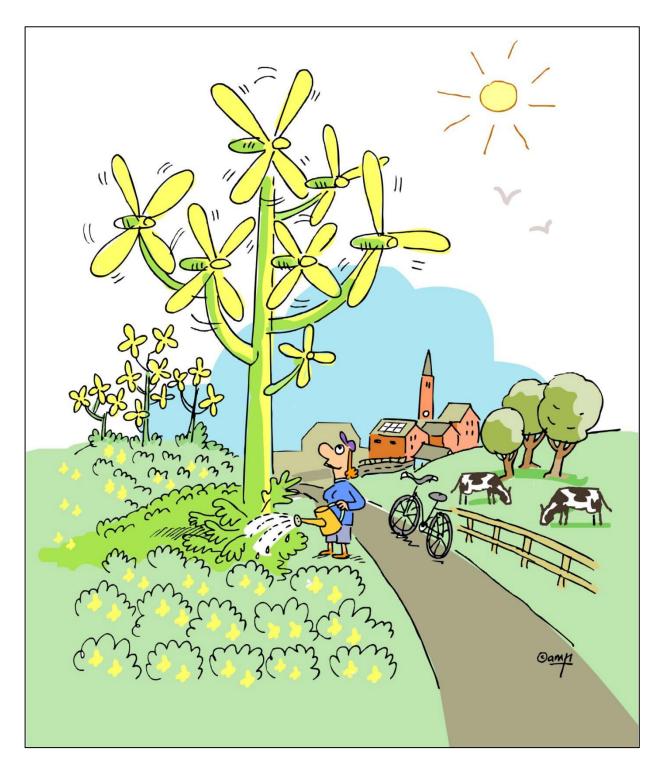








### Fund to improve the environment









### Fund to improve the environment

- A fund sponsored from the benefits of the windenergy (windfirms):
  - Foundation 'without interests'=> statutes
  - The neighbours decide which actions/projects can be sponsored in their environment (800 m).
  - The windfirms have a advising partner (with veto)
- A symbolic recognition of the differente actors (windfirms, neigbours, farmers, etc)
- Lever towards an energylandscape with a long term vision!















### 4. Recommendations

- Concentration and contrast!
- Integral plan: spatial planning + engagement windfirms + participation and transparant communication with different actors
- The proces takes time but definitly le(a)d to more windturbines (EM: +20 wt; E40: +18)
- Neutral actor is important:
  Oost-Vlaanderen Energielandscape
- Toolkit Oost-Vlaanderen Energielandschap: being translated in English







### 4. Recommendations

Oost-Vlaanderen Energielandscape is looking for partners for (European) projects!

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