



The Game that allows you to explore  
the tensions between  
energy, food and nature

## ▶ The purpose of BIOMAdneSS

To explore the trade-off between the use of fertile land for food, biomass or nature

Developed by:

TU Delft (Game development)

- Lizet Bloo
- Marieke Weusten
- Sven Koreneef
- Maurits Drijfhout van Hooff
- Kees Meershoek

CE Delft (Game idea)

- Geert Bergsma

## ▶ Who is the game intended for?

- Biofuel and biomass policy-makers
- Climate and nature policy-makers
- Food policy-makers
- Energy companies
- Fuel companies
- Biochemistry companies
- Food companies
- NGOs working on biomass, climate policy and food security
- Consultants involved with energy, food and nature

Where can we play the game?

1. In-company, facilitated by CE Delft, or
2. At CE Delft's offices in the historic Dutch city of Delft

Language: English or Dutch

For more information: [bergsma@ce.nl](mailto:bergsma@ce.nl)

## ▶ How to play?

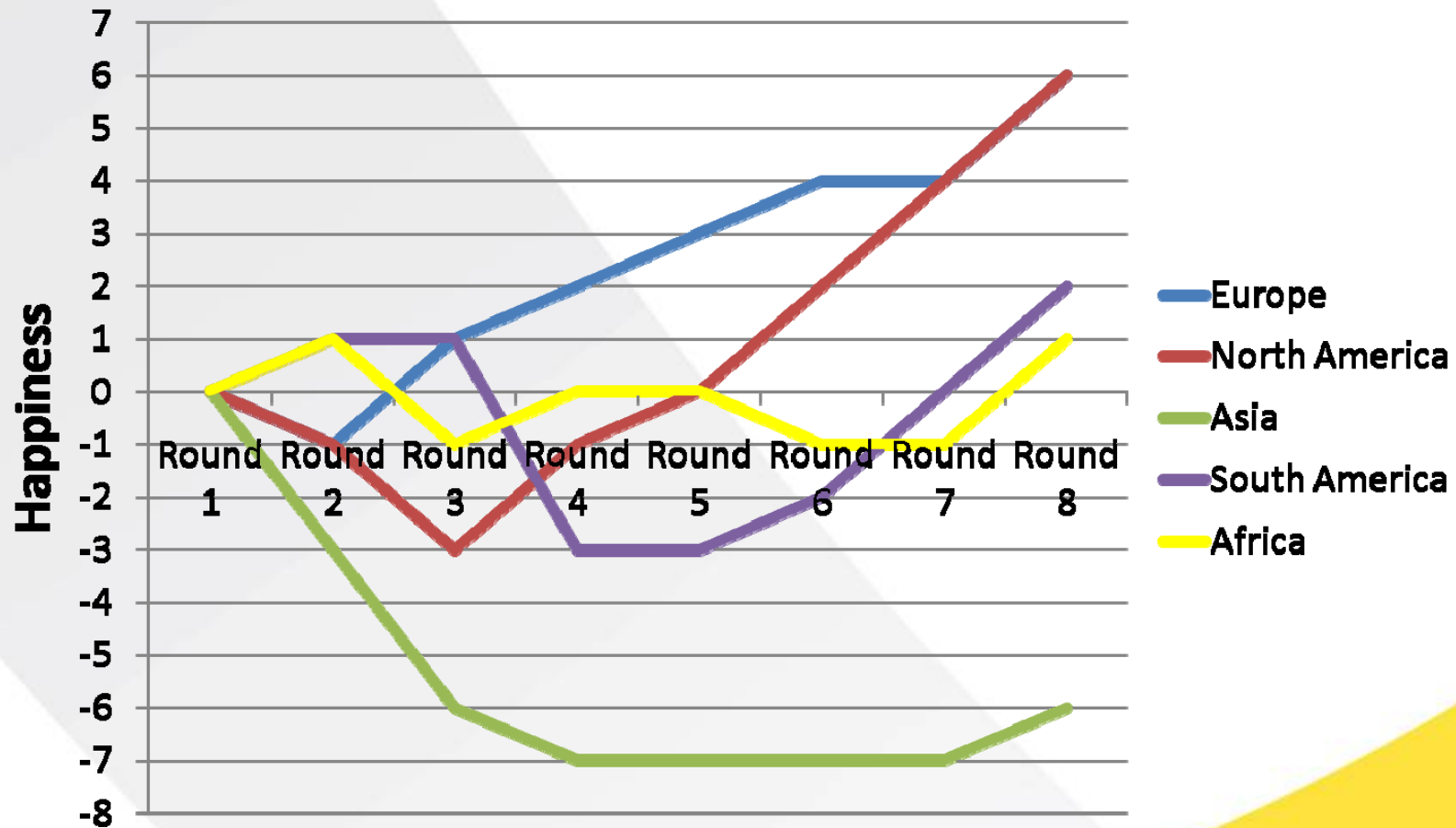
- On five continents (North America, South America, Europe, Asia & Africa) people's needs for food, energy and sustainability must be met
- Land planning is crucial: Nature, food or energy/biomass crops
- Trade is possible: food, energy and emissions rights
- Energy can be conventional, biomass or other renewables (eg. wind)

>> The goal: to make your population happy!

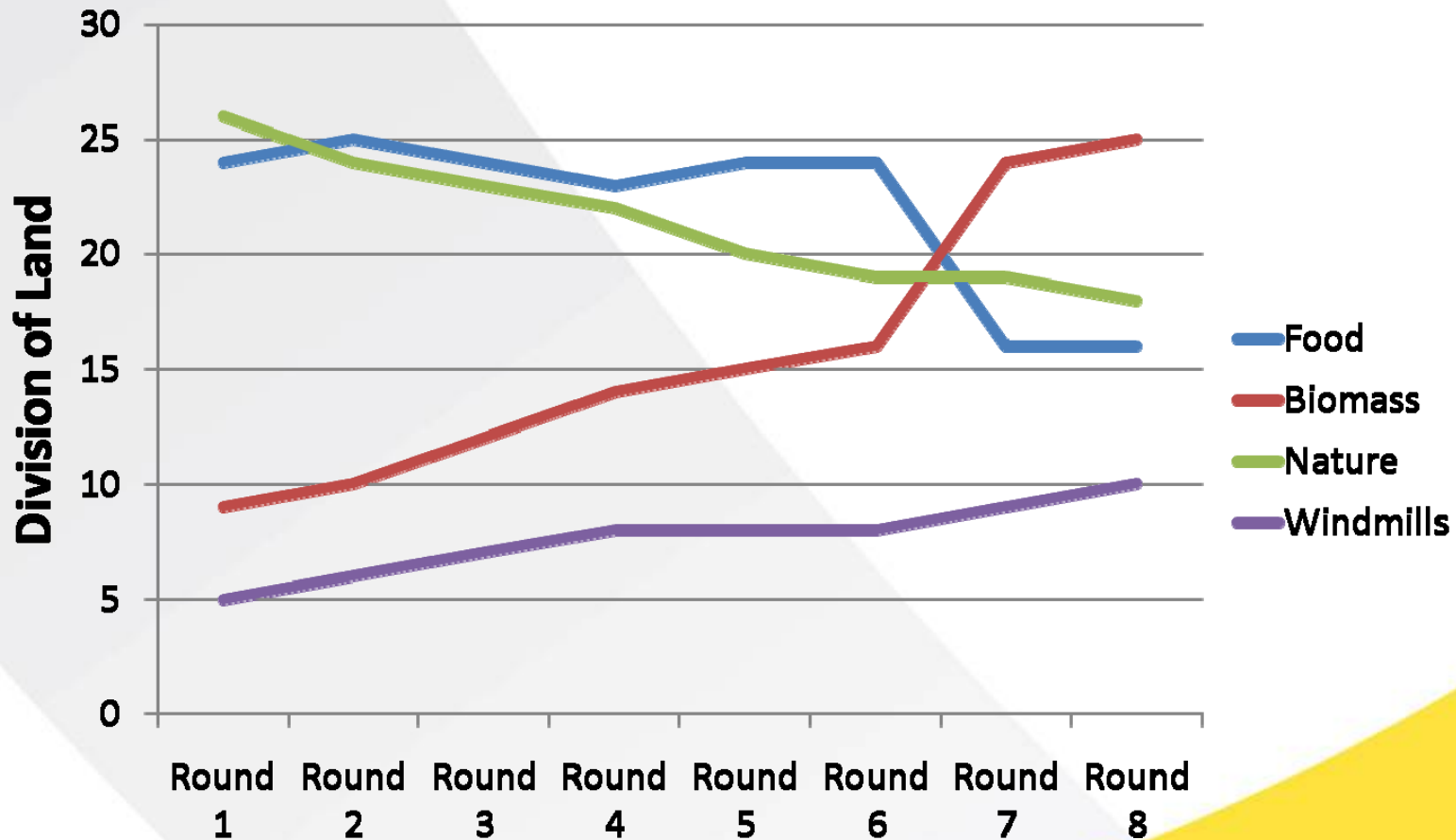
The game can be played by 5 to 20 people and takes 1 to 2 hours

Result: An instructive group experience and a better understanding of the interplay between food, energy, nature, biomass & trade

▶ Example of happiness factor world citizens



▶ Example of land division trends in the game



### people happiness

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### food prices

	eu	as	sa	af
selling to	500	400	400	400
buying from	500	400	300	300

### happiness factors

	food	kyoto	investments
😊😊😊			4200
😊😊		> 3	3500
😊	> 9	0 - 2	2800
😐	7 - 8	-2 - -1	2100
😞	5 - 6	-5 - -3	1400
😞😞		< -6	700
😞😞😞			0

### continent properties

energy need	15
income	5000
minimum food	5
starts with	
nature	5
food	4
biomass	3
windmills	3

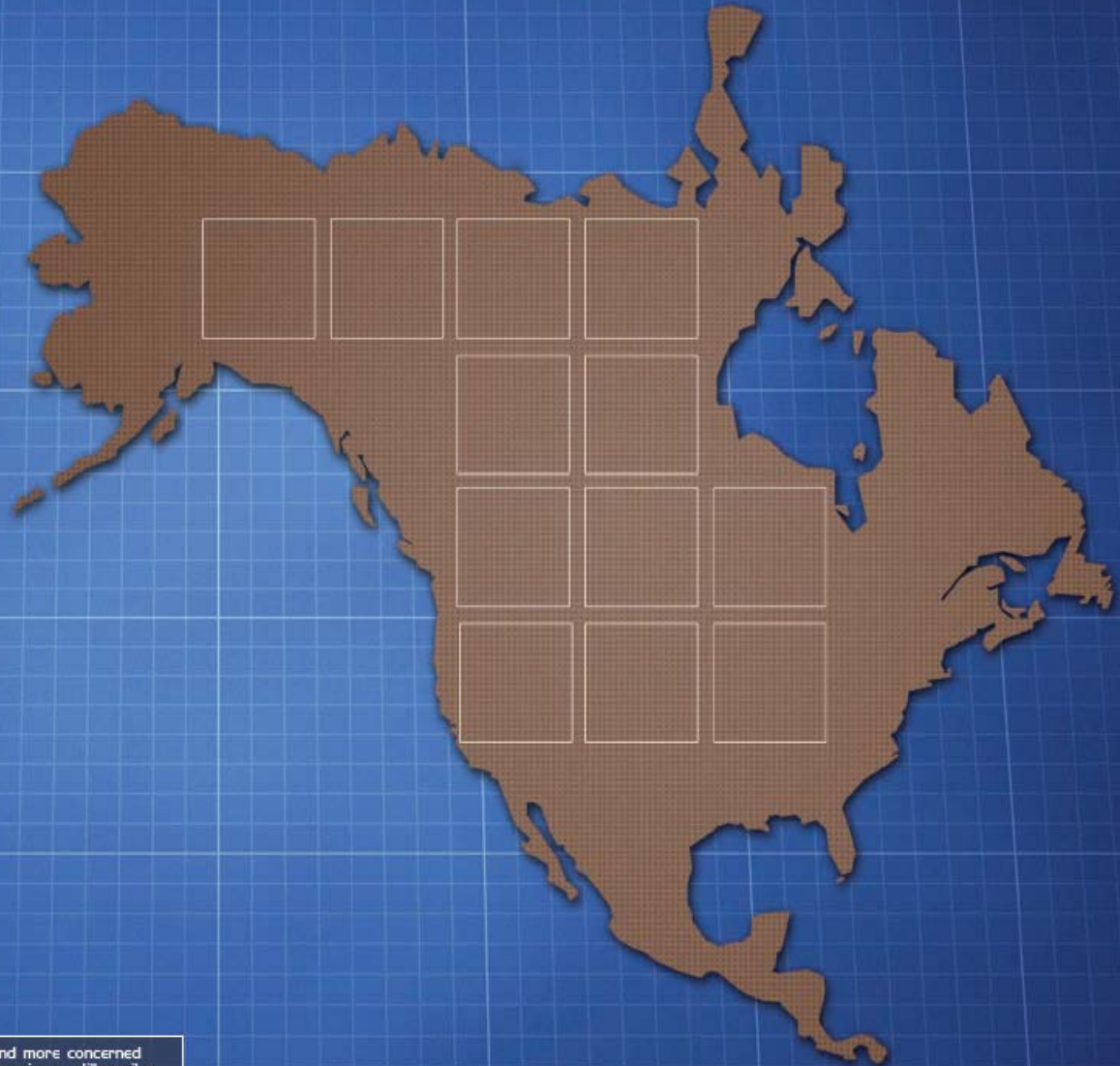
### costs & build times

windmill park	2500
emission right	500
clean energy	800
conversion	rounds
... > nature	2
nature > ...	1
food > biomass	0
biomass > food	0

### continent background

North America is the wealthiest continent in the world. The people are getting more and more concerned about the environment. Complying with the Kyoto protocol will be hard, because the Americans still spoil a lot of their energy. However, the situation is changing.

Over the last few years the USA has lost a bit of its credibility for shaking up world economics, threatening its position as the world's most powerful country.



## ▶ Contact

For more information or booking:

CE Delft

Oude Delft 180

2611 HH Delft

The Netherlands

[www.cedelft.eu](http://www.cedelft.eu)

Tel. +31 15 2150150

Contact: Geert Bergsma

E-mail: [bergsma@ce.nl](mailto:bergsma@ce.nl)

NB: Discount for NGOs