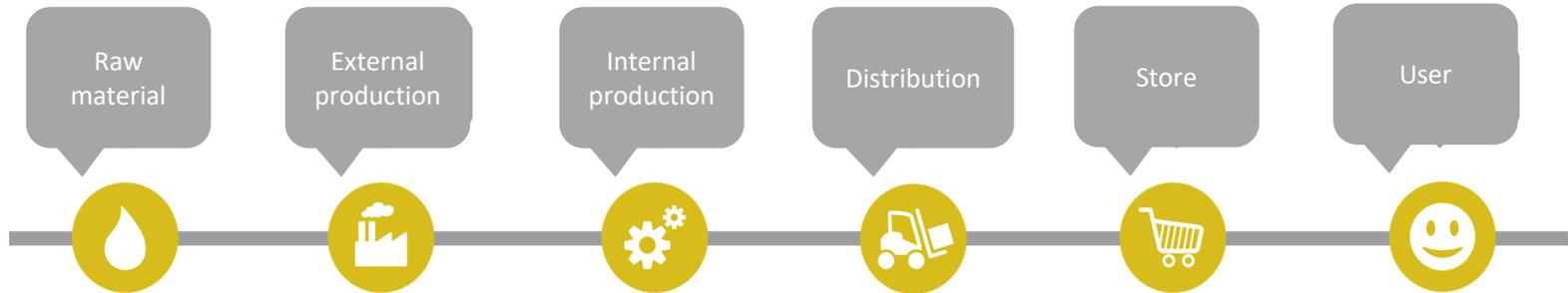


# Power-to-gas perspectives

Jonas Cautaerts – Business Development



# Why?



direct & indirect  
**impact**

# Why? Example

## Employees



29.000+ employees  
drive 900.000km/day

## Goods



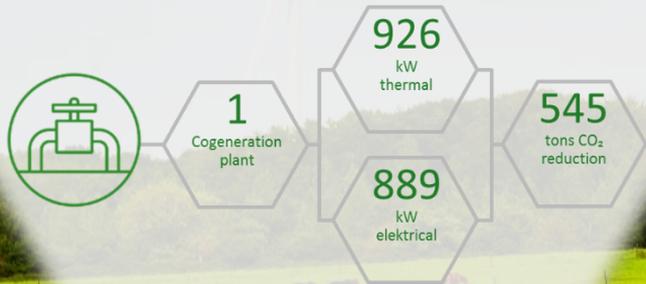
1.100+ shops  
delivered by 1.000 trucks  
drive 130.000km/day

## Customers



Our customers  
drive 2.8 million km  
per day

# All energy becomes green



2017

## Wind turbines and solar installations

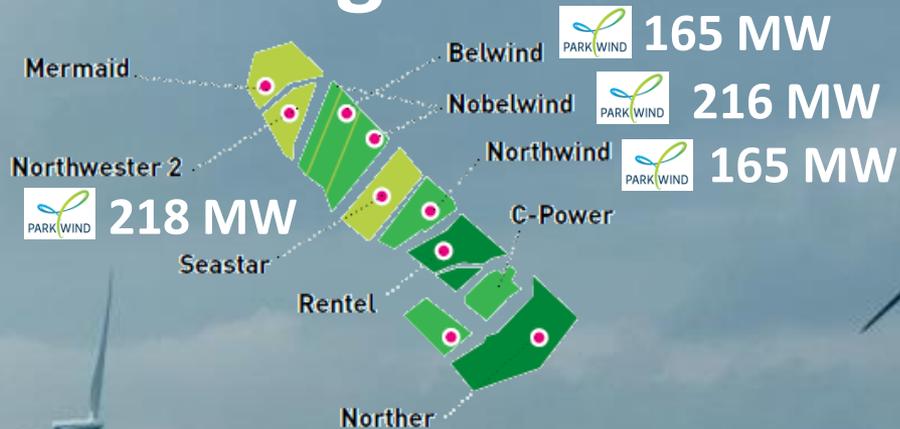
- 55,800 MWh annual production
- 15,900 families
- 20,500 tonnes less CO<sub>2</sub>



54 installations

14 installations

# All energy becomes green



# 860 000 families

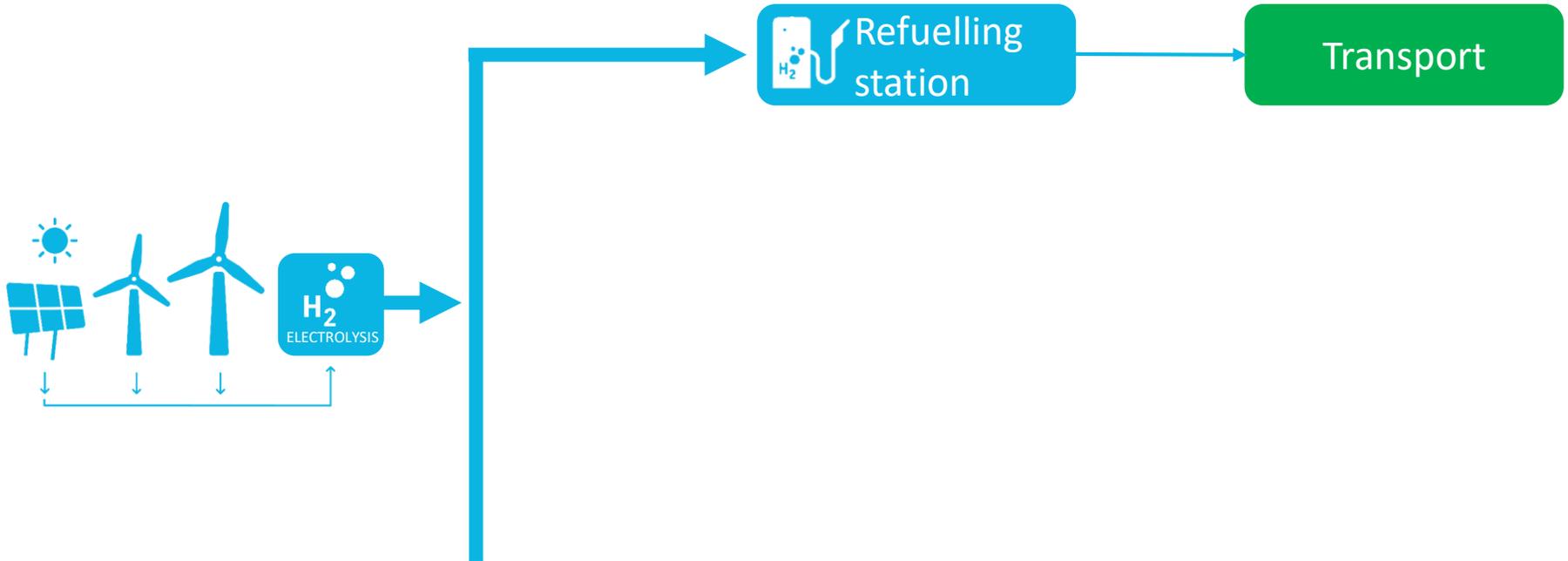


# Advantages of green hydrogen

- Production out of renewables is **inexhaustible**
- **Logistic advantages**
  - No noise
  - Refuelling like CNG
- **Storage**



# Potential of green hydrogen



# Hydrogen for transport

## Internal logistics



# Hydrogen for transport

## Forklifts

**Interreg**   
EUROPESE UNIE  
**Vlaanderen-Nederland**  
Europees Fonds voor Regionale Ontwikkeling



# Hydrogen for transport

# Heavy-duty



**Interreg**   
North-West Europe  
**H2-Share**  
European Regional Development Fund

Sub partners: Gemeente Helmond, VIL

Associated partners: DHL, Breytner, Cure afvalbeheer, Rijkswaterstaat, Colruyt Group

Partners: VDL, e-mobil, Hydrogen Europe, Wystrach, Automotive NL, TNO, WaterstofNet



# Hydrogen for transport

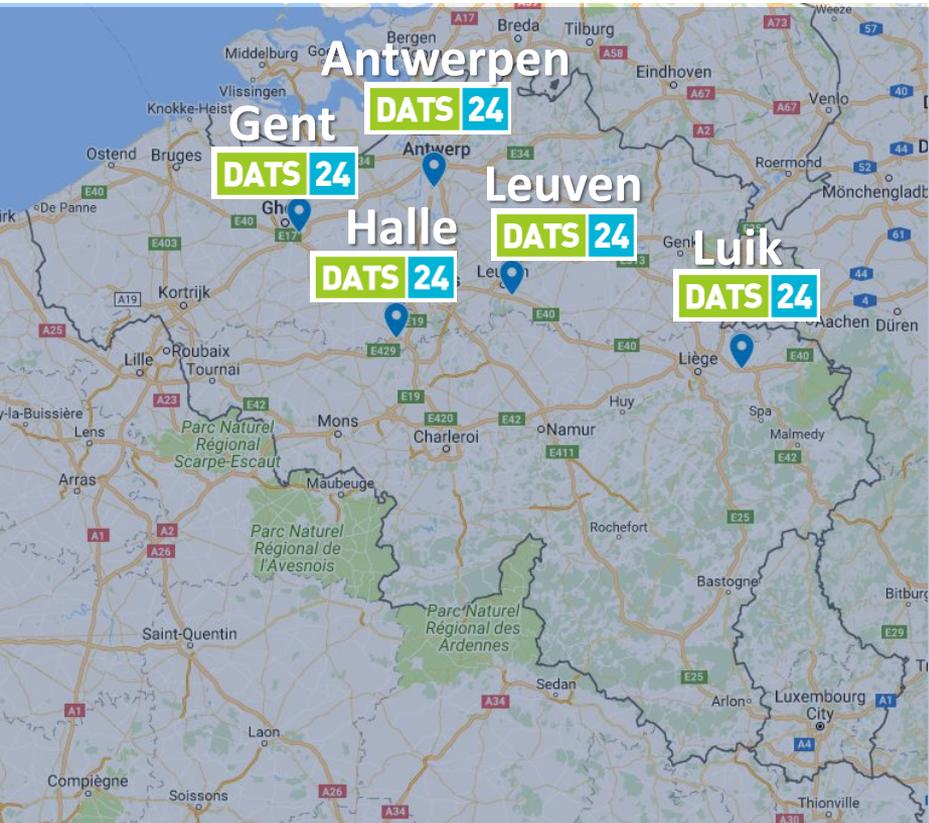
## Private cars



**Interreg**   
EUROPESE UNIE  
**Vlaanderen-Nederland**  
Europees Fonds voor Regionale Ontwikkeling



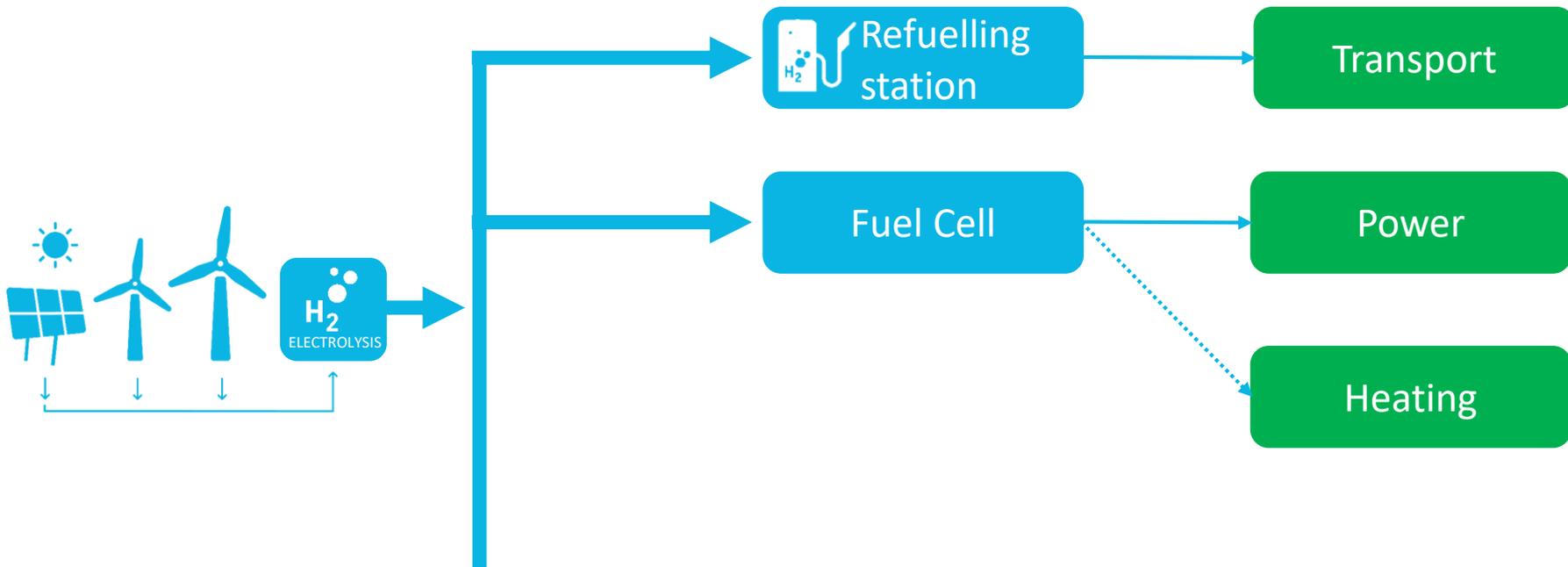
# Hydrogen for transport



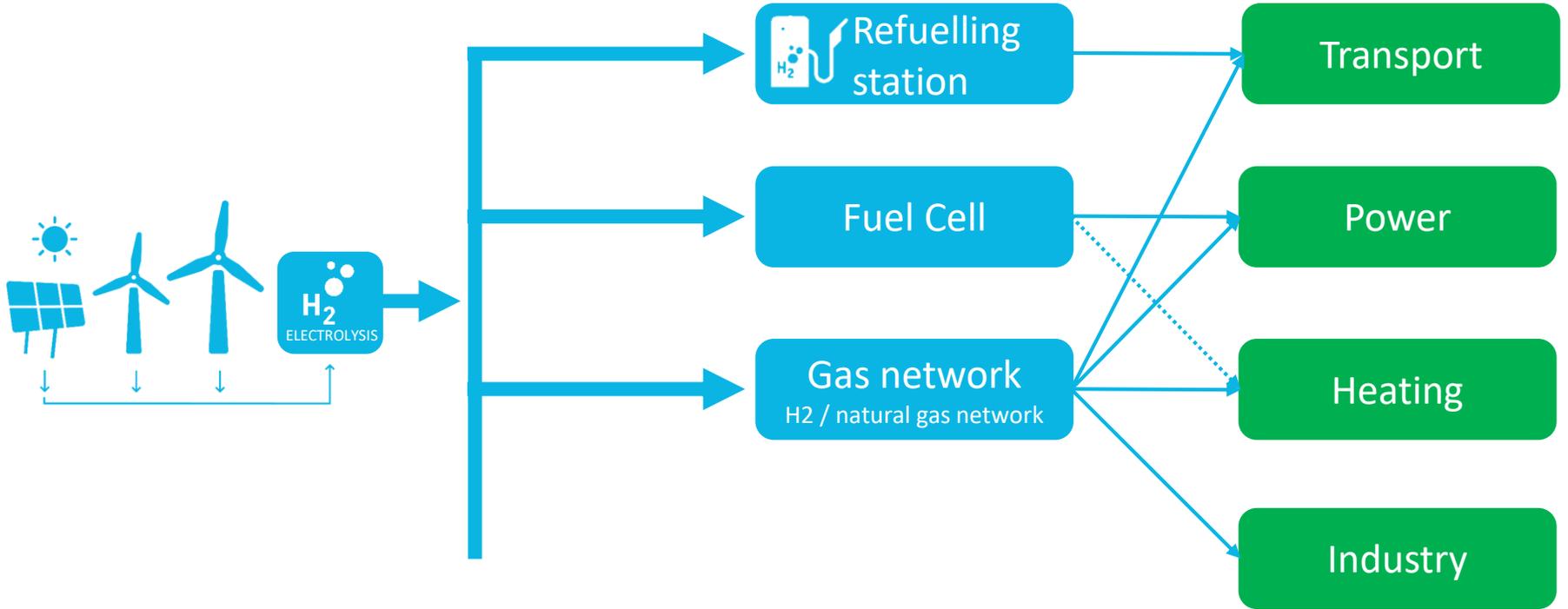
- Halle
- Wilrijk
- Gent
- Leuven
- Luik



# Potential of green hydrogen

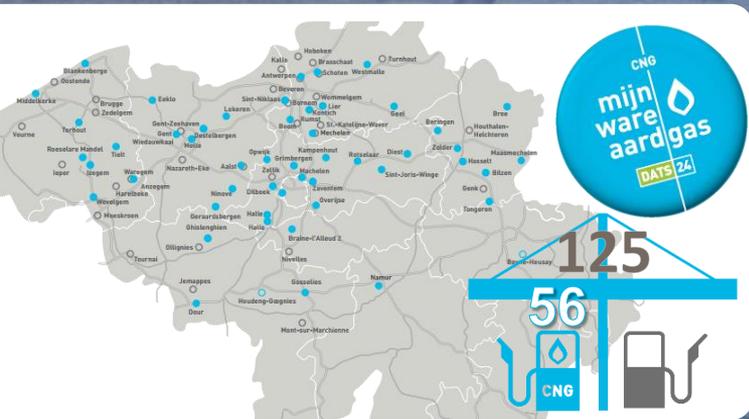


# Potential of green hydrogen

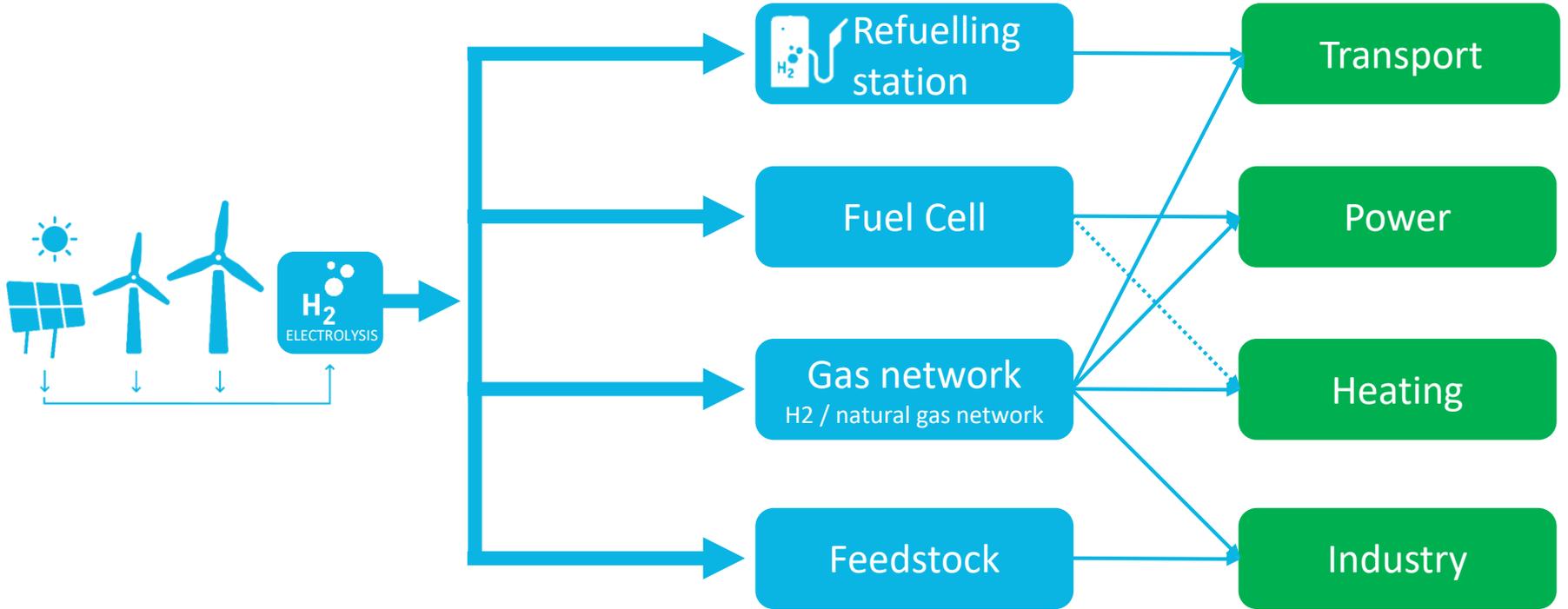


# Power-to-gas

# Greener natural gas



# Potential of green hydrogen



# Other hydrogen activities



IBN "POWER TO GAS"



Samen voor sterk innoveren



# Challenges

## 1. Regulation

## 2. Price

SUSTAINABLE  
DEVELOPMENT  
GOALS  
SDG VOICES BELGIUM



INTERVIEW

# ‘Over één generatie is alle energie groen’

“Op momenten dat stroom uit windparken niet gebruikt wordt, zetten we die om naar waterstof, een goede energiebuffer.

“Steeds meer ondernemersfamilies willen investeren in groene energie. Er is echt geen probleem met de beschikbaarheid van kapitaal. Het heeft te maken met doorzetten.  
Er is een

## 3. Coalition of the willing

# Coalition of the willing

C O D E S  
G  
R U L E S  
L  
S T A N D A R D S  
T  
G U I D E L I N E S  
O  
C O M P L I A N C E

