



# CEPNET Session 4

# Today's Plan

- ▶ Reminder of Marshmallow Game
- ▶ Quick Recap on Ideas
- ▶ Video #3 on SDGs
- ▶ Work at tables on research ideas
- ▶ Discussion
- ▶ Linking interests to themes
- ▶ Discussion

# Where's the animal?

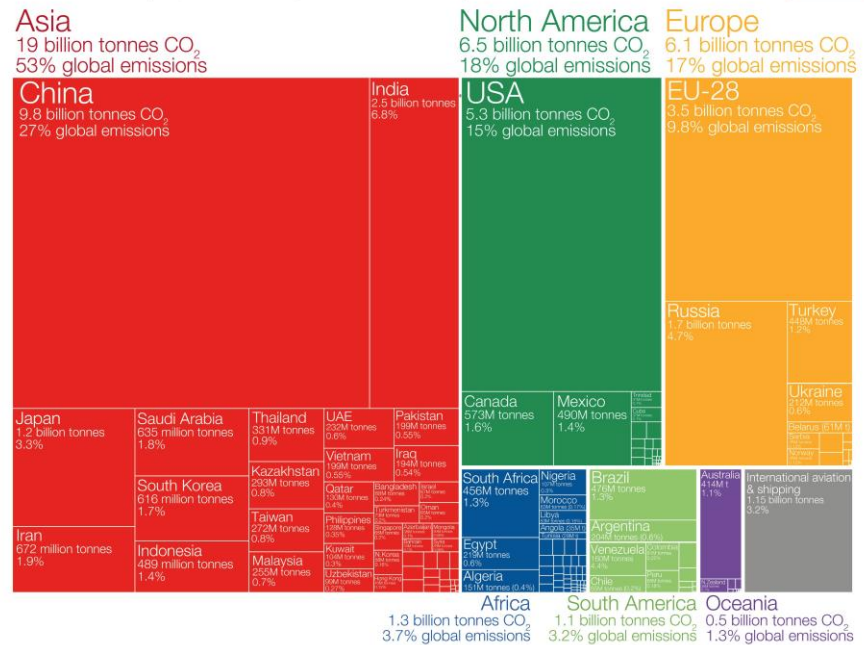




## Who emits the most CO<sub>2</sub>?

Global carbon dioxide (CO<sub>2</sub>) emissions were 36.2 billion tonnes in 2017.

Our World  
in Data



Shown are national production-based emissions in 2017. Production-based emissions measure CO<sub>2</sub> produced domestically from fossil fuel combustion and cement, and do not adjust for emissions embedded in trade (i.e. consumption-based).

Figures for the 28 countries in the European Union have been grouped as the 'EU-28' since international targets and negotiations are typically set as a collaborative target between EU countries. Values may not sum to 100% due to rounding.

Data source: Global Carbon Project (GCP).

This is a visualization from OurWorldInData.org, where you find data and research on how the world is changing.

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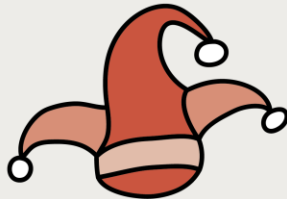
# Electricity Usage

Activity	Energy	Hourly cost at €0.24 per kWh inc Vat*	Cost	Based on
Immersion	3 kWh	€0.72	€2.16	Three hours of heating
Fridge/freezer	0.18 kWh	€0.04	€1.04	One day of use
Tumble dryer	3 kWh	€0.72	€0.72	One hour of drying
Desktop Computer	0.2 kWh	€0.05	€0.38	8 hours of use
Electric shower	9.5 kWh	€2.28	€0.38	10-min shower
Dishwasher	0.8 kWh	€0.19	€0.38	A two-hour cycle
Washing machine	0.8 kWh	€0.19	€0.38	A two-hour cycle
Cooking (induction)	3 kWh	€0.72	€0.36	Half hour of cooking
Iron	2.5 kWh	€0.60	€0.30	Half hour of ironing
TV	0.2 kWh	€0.05	€0.19	4 hours of use
Laptop	0.1 kWh	€0.02	€0.19	8 hours of use
Kettle	2.5 kWh	€0.60	€0.10	10 mins of boiling
Lightbulb 60 Watt	0.06 kWh	€0.01	€0.09	6 hours of light
Hair dryer	2 kWh	€0.48	€0.08	10 mins of use
Vacuum cleaner	0.7 kWh	€0.17	€0.06	20 mins of hoovering
Router	0.01 kWh	Less than one cent	€0.06	One day's use
Microwave	0.8 kWh	€0.19	€0.03	10 mins of use
Toaster	1.5 kWh	€0.36	€0.03	5 mins of use
A Nespresso	0.9 kWh	€0.22	€0.02	5 mins of use
Daily standing charge			€0.57	One day
PSO levy			€0.16	One day
<b>Total</b>			<b>€7.68</b>	<b>A day</b>



**WHITE HAT**

*Facts + figures  
+ information*



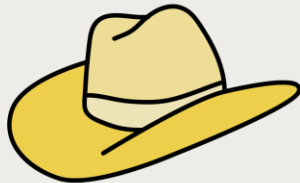
**RED HAT**

*Emotions + feelings  
+ intuitions*



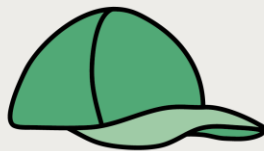
**BLACK HAT**

*Caution + truth +  
judgement*



**YELLOW HAT**

*Advantages +  
benefits + savings*



**GREEN HAT**

*Exploration + proposals  
+ suggestions*



**BLUE HAT**

*Thinking about thinking +  
control of the thinking  
process*





# Where's the animal?



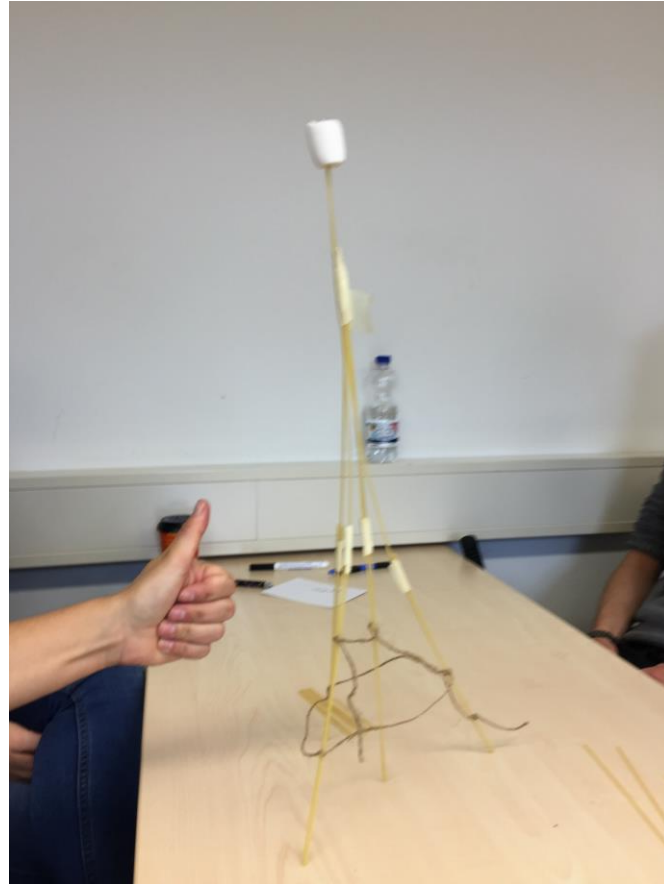




# Marshmallow Game Lessons

- ▶ **Prototype- Iterate- Collaborate- Feedback- Improve**
- ▶ Understand the importance of teamwork and failure in projects
- ▶ Understand that some shapes are stronger than others
- ▶ Understand that even weak materials can be made stronger with good design techniques,
- ▶ Understand that distribution of mass is an important consideration when building a tower
- ▶ Compare models to others to understand why some models are stronger than others

# Building strategies



# Resources

World's Largest Lesson #1

- ▶ <https://vimeo.com/138852758>

Quiz on the SDGs

- ▶ <https://www.bookwidgets.com/play/QKUJZZ>

World's Largest Lesson #2

- ▶ <https://vimeo.com/178464378>

World's Largest Lesson #3

- ▶ <https://vimeo.com/266852848>

# Resources

SDGs with some detail (reference)

- ▶ [https://issuu.com/unpublications/docs/sdg\\_yak\\_en](https://issuu.com/unpublications/docs/sdg_yak_en)

Story with SDG focus

- ▶ [https://issuu.com/unpublications/docs/frieda\\_2018](https://issuu.com/unpublications/docs/frieda_2018)

Panda app

- ▶ <https://www.undp.org/content/undp/en/home/sustainable-development-goals/sdg-pandas.html>

SDGs in 90 seconds

- ▶ [https://www.youtube.com/watch?v=0XTBYMfZyrM&feature=emb\\_logo](https://www.youtube.com/watch?v=0XTBYMfZyrM&feature=emb_logo)

# Resources

## Lazy person's guide

- ▶ <https://www.un.org/sustainabledevelopment/takeaction/>

## Becoming a goalkeeper

- ▶ <https://worldslargestlesson.globalgoals.org/wp-content/uploads/2020/08/GK-Lesson-Plan-July-Edit.pdf>

## Global goals in daily life

- ▶ <https://worldslargestlesson.globalgoals.org/wp-content/uploads/2020/08/What-To-Do-With-The-Global-goals-in-my-daily-life.pdf>

## Gender dimension

- ▶ <https://app.involve.me/unfoundation/journey-to-power>



# Resources

SDG blog and bookclub

- ▶ <https://www.un.org/sustainabledevelopment/sdgbookclub/>

Thomas the tanks engine videos

- ▶ <https://www.allaboardforglobalgoals.com/en-us>

Classrooms project

- ▶ <https://www.goalsproject.org/>
- ▶ <https://www.goalsproject.org/2019-goals-projects.html>



# Competency Framework



# Common Ground

