

### Presentation

Technology part

Problem part

Future part

# "Technology is a product of an animal/human mind."

"Would only occur because of life, but is not living"

**Kevin Kelly** 



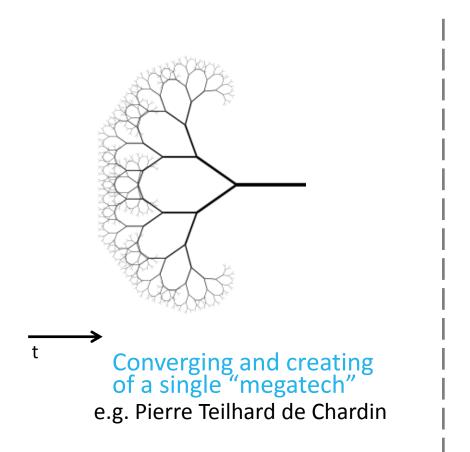
# Technological evolution

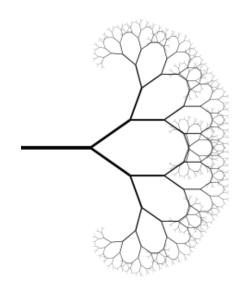
Natural sequence to developments

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e.g. domestication of dogs \rightarrow pottery \rightarrow sewing \rightarrow etc.
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**Kevin Kelly** 

#### Technology as a catalyst for evolution





Diverging and creating forever divergent tech e.g. Kevin Kelly

How will your project fit into the

"techno sphere" or expand it?

# What are the qualities of a good partner?

# Freedom or crotches?

Enabling or disabling?



# Symbiotic co-existence or oppression?

Are we setting up AI servants to rebel..

https://www.meltin.jp/

## Conversation:

What's our Teams relationship with technology?

# Problem part

For engineers challenge is like... how can we make it **better**, **faster and smaller – more efficiently**?

Challenge is not like... how can we make something people will **like**?









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- \_\_\_
- -----
- Annual parties and
- I have the other
- 1 ----

## PROBLEM --- NEED

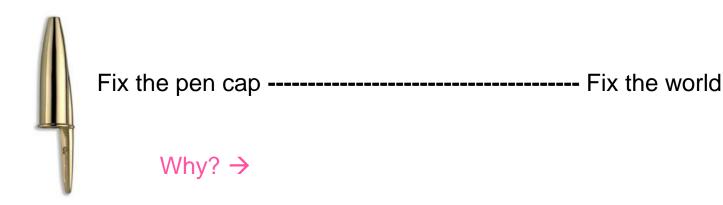
2 sides of the same coin

# What to consider when framing a challenge?



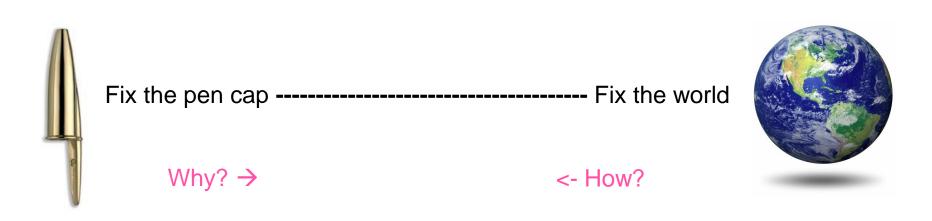
Fix the pen cap ----- Fix the world







e.g. "Give Rebecca a reusable drinking bottle"

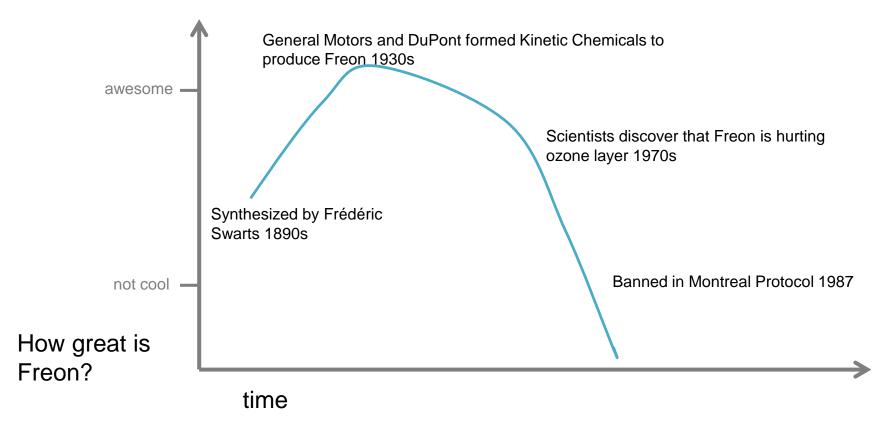


e.g. "Give Rebecca a reusable drinking bottle"

e.g. "Water scarcity, water purification"

2. What is your time perspective?

20 weeks ----- **20 months** -----**20 years** 



When do we measure the success of an invention?

2. What is your time perspective?

20 weeks ----- **20 months** -----**20 years** 

2. What is your time perspective?

20 weeks ---- 20 months ----- 20 years more



# Best way to predict the future is to invent it → backcasting from future to present

3. How holistically is the challenge framed?

#### 3. How holistically is the challenge framed?

The world is a system with all the parts connected



Change one part and move the other e.g. "Why are the sewer caps missing?" "Why is everyone growing snakes?"

#### Problem

Fill in the statement below. Be concise!



Team: \_\_\_\_\_



#### We aim to change

How do we know that this is a problem?

Who's experiencing the problem?

What will follow it this issue is solved?

# Future part

Step 1: Fundamental research: "Check what I found!"

Step 2: Society: "So...?"

Step 3: Century later something

unimaginable is born.

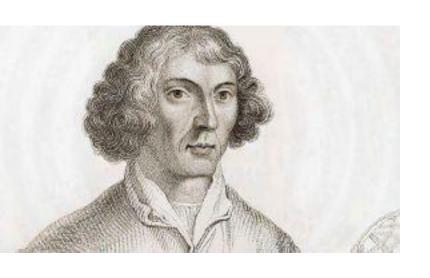


Copernicus:

"Orbits are elliptical"

Society:

"Great, but how will this help me grow potatoes?"



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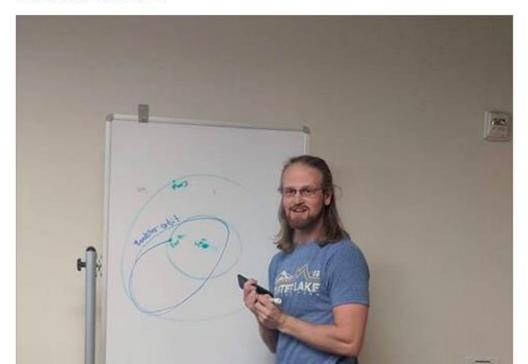
"Great, but how will this help me grow potatoes?"

Google best products

Sell potatoes online...

My Job description: inform team about business-critical missions, notably the orbital dynamics of Elon's Roadster and Starman. TL;DR: SpaceX launched the first Flacon Heavy, sending the first Tesla on a Mars orbit trajectory (actually beyond Mars...). Just your typical day working for Elon...

PC: @Irene Kucherova



Unpredictable livelyhood in 1800's

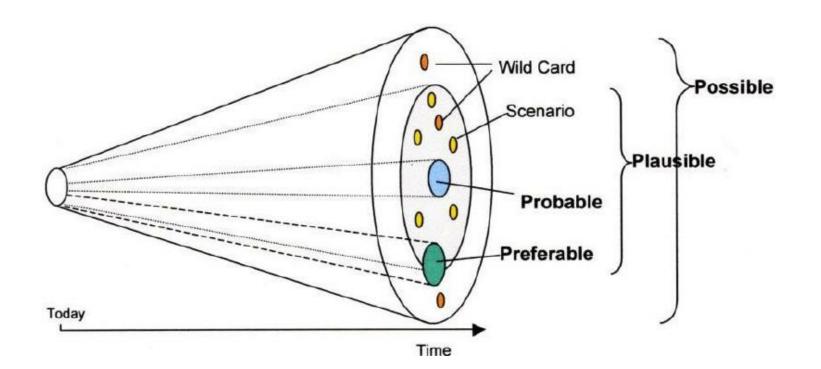
"Who here thinks AI will significantly impact the industry you are working in the next 4 years?"

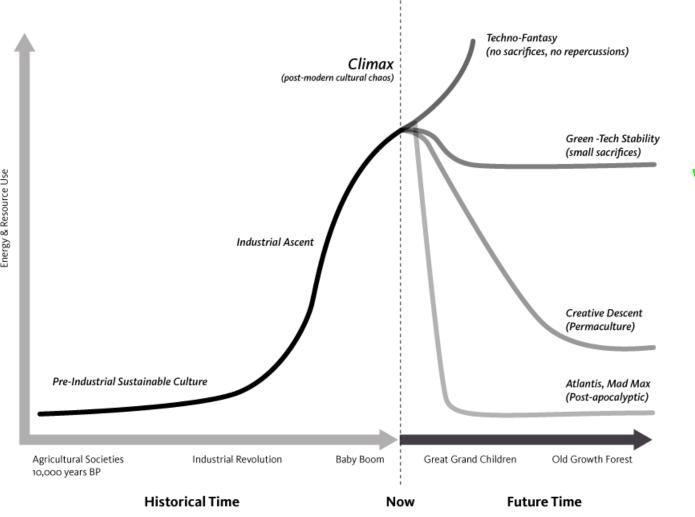
"Who here can tell me they understand what Al is?"

"Who here thinks AI will significantly impact the industry you are working in the next 4 years?"

... how is this possible?

"Who here can tell me they understand what Al is?"





# Energy? Inequality? Work?

. . .

## Speculative fiction

Takes place before and during a massive, worldwide disaster.

Focuses on groups of survivors after a massive, typically worldwide disaster.

Centers on superheroes (i.e. heroes with extraordinary abilities or powers) and their fight against evil forces such as

supervillains. Typically incorporates elements of science fiction and/or fantasy, and may be a subgenre of them. Exploits or requires as plot devices or themes some contradictions of the commonplace natural world and materialist

**Apocalyptic** 

apocalyptic

Superhero

Supernatural

assumptions about it.

Post-

Name	<b>\$</b>	Description	<b>\$</b>	Examples
Fantasy		Includes elements and beings from human cultural imagination, such as mythical creatures (dragons and fairies, for example), magic and magical elements, sorcery, witchcraft, etc.		The Lord of the Rings, Harry Potter
Science fiction		Features natural sciences and technologies that do not exist in real life (but may be supposed to exist in the future), including robots, interstellar travel, flying cars and also beings and societies from other planets (aliens).		2001: A Space Odyssey, Blade Runner, Jurass Park, Planet of the Apes, Star Trek, Star Wars
Horror		Somewhat similar to fantasy, but focusing on terrifying, evil and often powerful beings, such as monsters and ghosts. Also aims to transmit actual fear and confusion to the reader/watcher.		A Nightmare on Elm Street, The Exorcist
Hamina		Takes place in a highly desirable society, often presented as advanced, happy, intelligent or even perfect or problem-		Island Ecotopia 17776

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Alternate history	Focusing on historical events as if they happened in a different way, and their implications on the present.	The Man In The High Castle, Fatherland, The Tales of Alvin Maker

The Day After Tomorrow, 2012, On The Beach,

Waterworld, Metro 2033, The Stand, Fallout, Mad

Spider-Man, Avengers, Batman

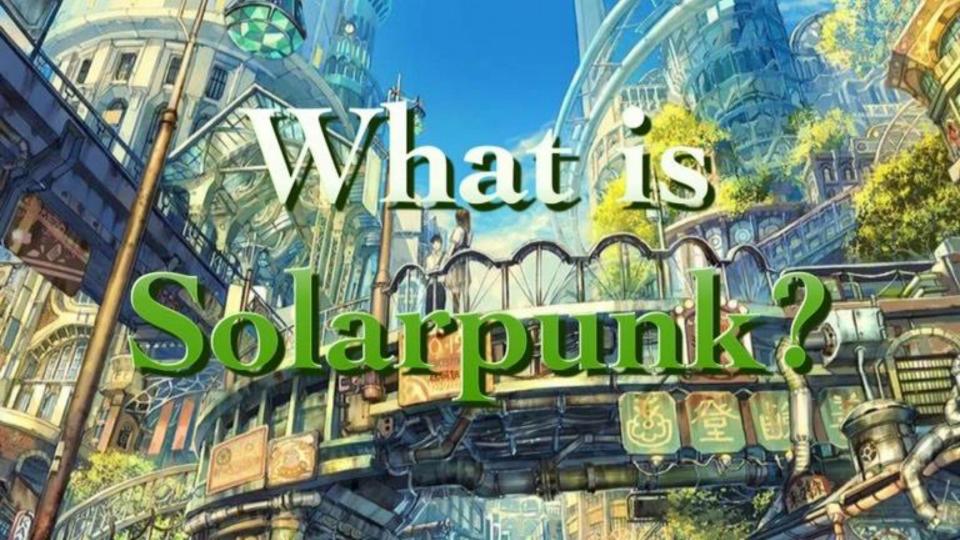
Paranormal Activity, Fallen, The Castle of

Threads

Max

Otranto

Lets talk about solar punk





"Solarpunk is a movement in speculative fiction, art, fashion and activism that seeks to answer and embody the question "what does a sustainable civilization look like, and how can we get there?"

The aesthetics of solarpunk merge the practical with the beautiful, the well-designed with the green and wild, the bright and colorful with the earthy and solid.

Solarpunk can be utopian, just optimistic, or concerned with the struggles en route to a better world — but never dystopian. As our world roils with calamity, we need solutions, not warnings. "

# If you don't have a dream, how can it

come true?

#### **FUTURE STORYWORLDS** 24.11.2017 @CERN

Monika Bielskyte

## DYSTOPIAN FUTURES LACK:

- 1. Environmental awareness & biomimicry in tech
- 2. Diversity cultural but also of abilities
- 3. Ritual & spirituality (also!beyond the book religions)
- 4. Creativity (not limited to art as we know)
- 5. Empowered youth & street culture
- 6. Gender & family visions beyond existing stereotypes
- 7. Rethinking of human body
- 8. Depiction of scientific community that is not caricaturized/degraded
- 9. Economic/values evolution



#### Key events that will essentially affect our challenge in the future:

