Proposal of Twitter thread to promote the infographics

Note: tweets cannot exceed 280 characters, therefore some works are abbreviated or replaced with emojis…
If you want to suggest some changes, but do not add words but you can propose to replace some words with other wording as long as the number of characters remain the same

Below, I have copied/pasted the text that you can comment. I have also included screenshots of how the tweets should look like, as some emojis don't appear in the text I copied.

For each tweet, we will add an image which will be a piece of the infographics, as indicated below also.

TWEET 1

#Scienceoutreach | Check out #MSCA DEEPICE infographics to learn more about the goals of the research of DEEPICE scientists

👉unravelling the past by studying #icecores🧊❄️ to reconstruct past climates 🌡️📈 #paleoclimate

Many thanks to @CireniaSketches for the great work

1/9

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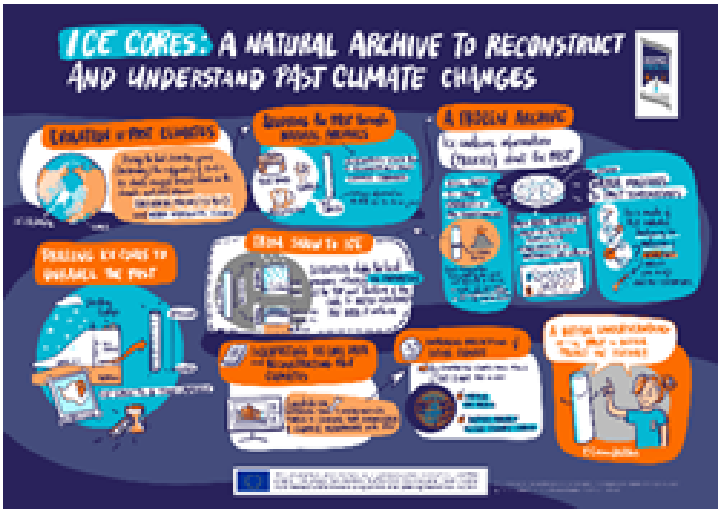

TWEET 2

Climate has evolved in the past!

🔎during the Quaternary period (= last 2.6 Million years), the climate oscillated between:

❄️cold glacial periods (also known as ice ages)

🌡️ warmer periods (called interglacial)

The size of the ice sheets also changed during these periods 🧊

2/9

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2/9

TWEET 3

To study how the climate changed in the past, scientists analysis several natural archives (such as corals🪸 tree rings🪵 ice...) which contain precious information🧐

DEEPICE scientists study the Antarctic ice🧊 which contains information about very old climate changes ⏳

3/9

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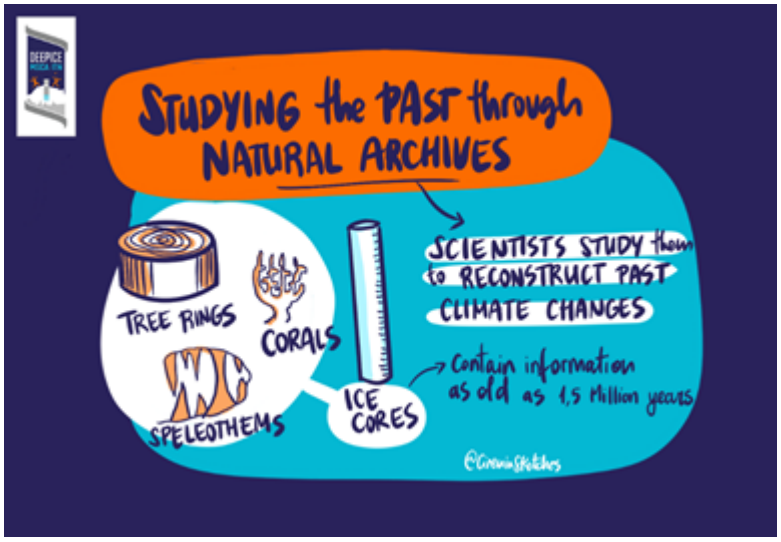

TWEET 4

Why studying the🧊?

It contains much data about the past:

🫧Air bubbles trapped in the ice give past atmospheric composition, such as greenhouse gas concentration

💧Water molecules isotopes help reconstructing past temperatures 🌡️

🌋Past events such as volcanic eruptions

4/9

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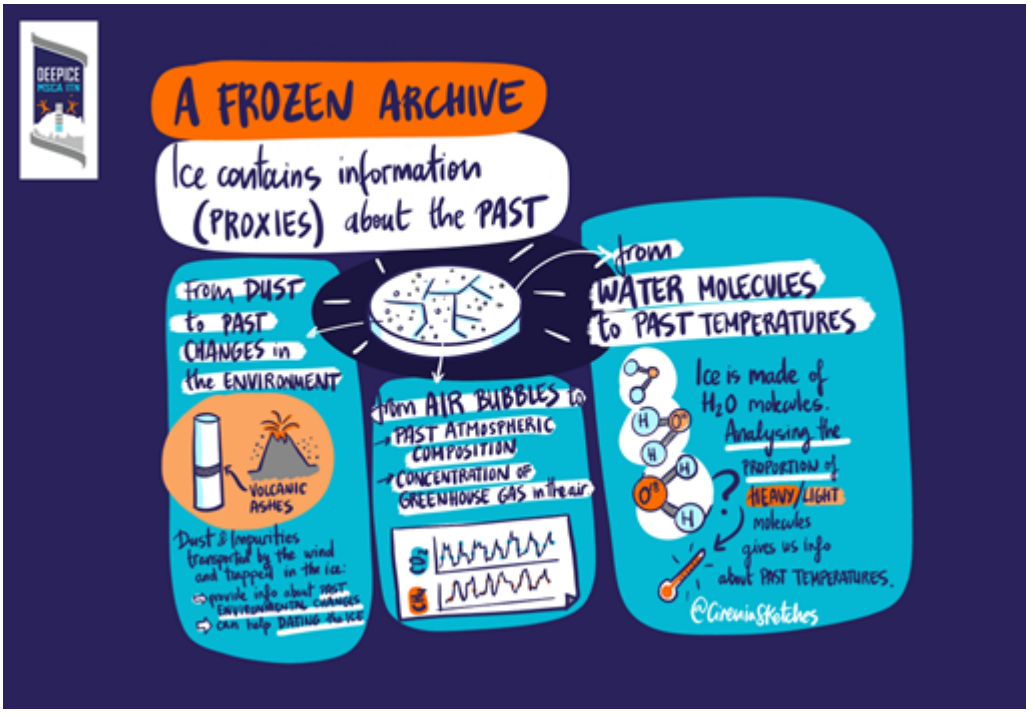

TWEET 5

🧐But how does ice form?

❄️Snow gradually turns into ice🧊 trapping air bubbles🫧

The deeper we go, the older the ice & the air become ⏳

👉DEEPICE scientists study the processes affecting ice formation to better understand the data they collect

5/9

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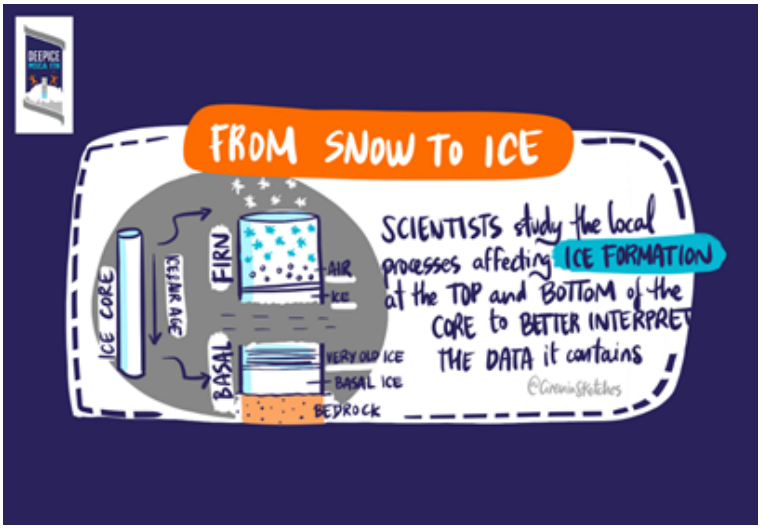

TWEET 6

How do we get to the old ice ❓

Ice cores (10cm-wide ice cylinder) are drilled in the ice sheet, like in Antarctica🇦🇶

A new 3km-deep drilling (Beyond EPICA) is ongoing to get ice as old as 1.5Million yrs @OldestIce

DEEPICE network is preparing the analysis of the old🧊

6/9

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6/9

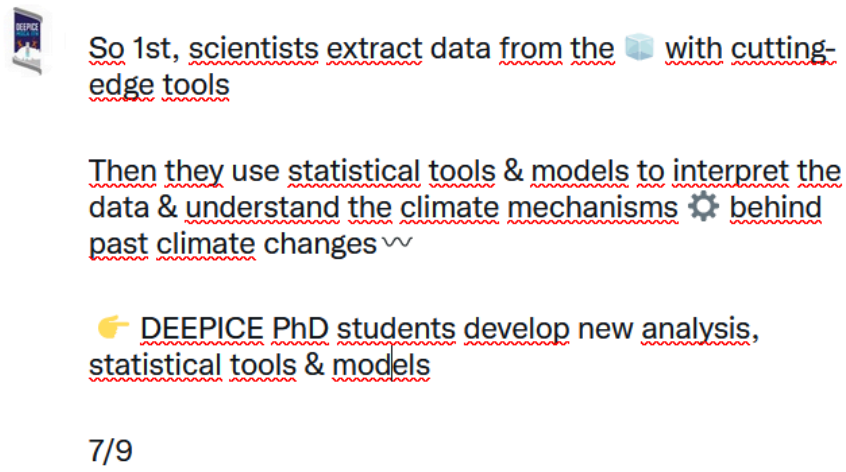
TWEET 7

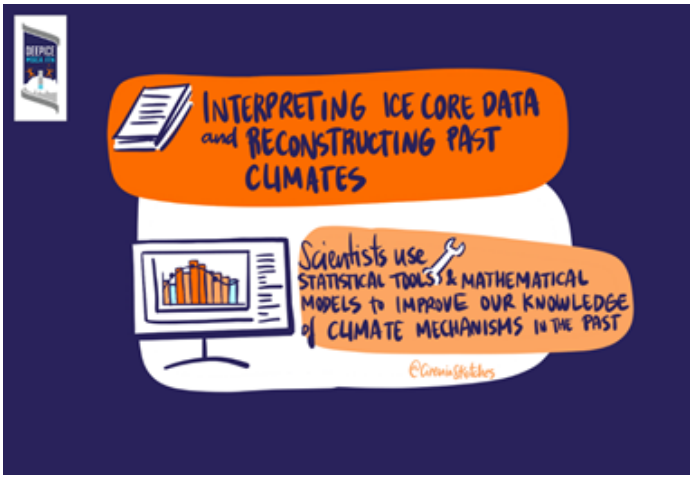
So 1st, scientists extract data from the🧊with cutting-edge tools

Then they use statistical tools & models to interpret the data & understand the climate mechanisms⚙️behind past climate changes〰️

👉DEEPICE PhD students develop new analysis, statistical tools & models

7/9





TWEET 8

🧐And why are we so interested in past climates? #paleoclimate

👉It helps improving climate models by comparing the model results with past climate data

👉It also helps better understand climate mechanisms

👉Therefore models can better predict future climate changes📈

8/9

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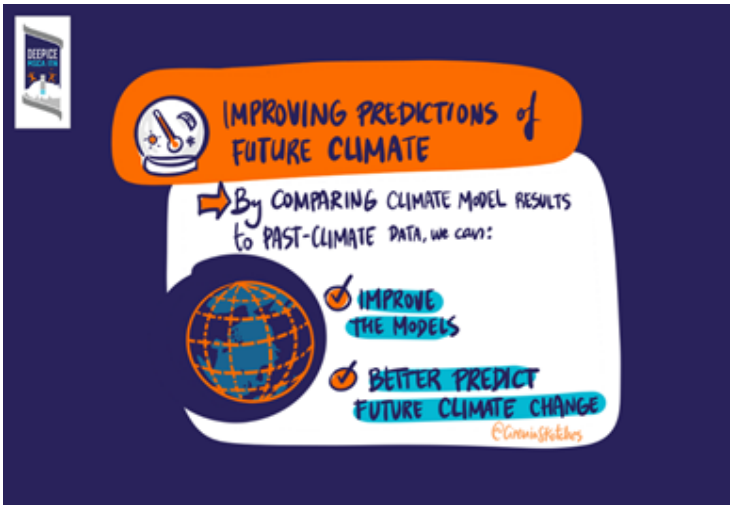

TWEET 9

🧐DEEPICE & Beyond EPICA scientists are studying the Mid-Pleistocene-Transition:

👉a major change of the rhythm & intensity of the ice age cycles which occurred between 0.8 & 1.2 Million years ago 〰❄️

What drove this change is still a mystery the old ice🧊could reveal

9/9

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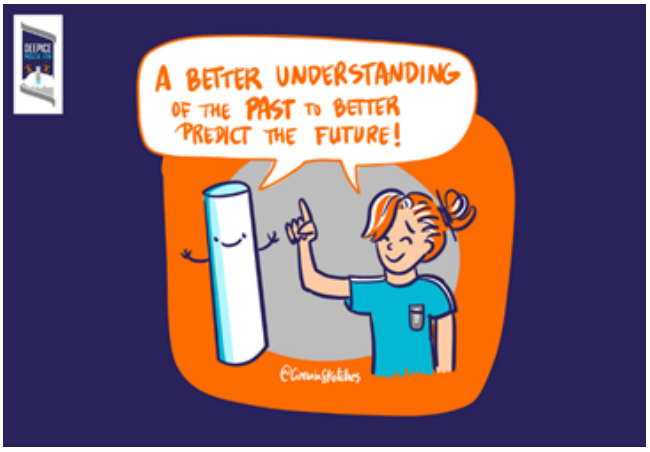

TWEET 10 - Links

👉Check out DEEPICE infographics here:
https://deepice.cnrs.fr/communication-resources/
👉More information on the 15 DEEPICE PhD projects🎓 here:
https://deepice.cnrs.fr/deepice-phd-projects/
👉More information on Beyond EPICA drilling project💶 here:
https://www.beyondepica.eu/en/

@OldestIce #MSCA #Horizon2020 #icecores

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