

PROBLEM SETUP:

- A. Citizen science **participation is necessary** for climate data collection
- B. As more data is submitted, **validating the quality and integrity (veracity)** of the data is of utmost importance
- C. Data is **increasingly** being drawn from citizen science **operated IoT devices**
- D. The volume of such data is often large and the **quality and integrity** are also critical
- E. We need better **solutions to verify the data** coming from humans and machines so that it can be **confidently used by others** in the community



Could NFT4Data be a solution?

NFT4Data:

Citizen Science and IoT Weather Data

- NFTs are **unique digital identifiers**
- They **cannot be copied**, substituted or subdivided
- They are **recorded on the blockchain** and supposed to support authenticity and ownership of a digital asset (bits, data) ...

Why not use them for data?

THIS PROJECT WILL EXPLORE:

- How NFT might be used **for digital data authenticity for weather data**,
- How to **prove authenticity of transmitted weather data** (whether from machine or human),
- **What Technical Requirements** are necessary to bring this to fruition (including existing attempts to do this),
- What **ethical and practical dimensions of data “ownership”** in an “open data” world need to be considered