CONCEPTUALIZING THE USE OF BLOCKCHAIN TECHNOLOGIES IN CITIZEN SCIENCE

Monika Mačiulienė, Mykolas Romeris University, Social Technologies LAB, maciuliene@mruni.eu
Aelita Skaržauskienė, Vilnius Gediminas Technical University, Faculty of Creative Industries, aelita.skarzauskiene@vgtu.lt

Main issues

Some solutions

1. citizen science = co-creation of data
2. data management issues: privacy of collected data, transparency or acknowledgement for scientific discoveries
3. potential of blockchain to realize and safeguard critical aspects of scholarly communication (trust, credit, universal access, anonymity) + can be used in almost all stages of researcher's workflow

decode

explores how to build a data-centric digital economy where data that is generated and gathered by citizens

#OpenLitterMap

applies blockchain mining principles to citizen science with the intention to incentivise the production of crowdsourced geospatial data

Astroblocks

proof-of-existence platform - used blockchain technology in solving the question how does an amateur astronomer prove that she discovered a certain object (e.g. new asteroids) at a certain time

frankl

designed to promote, facilitate and incentivize the practice of open science. It aims to integrate blockchain principles into the scientific workflow, providing public record of metadata and controlling access to data collected

SPACE DECENTRAL

connects engineers, scientists and citizens in devising and funding next-generation space initiatives