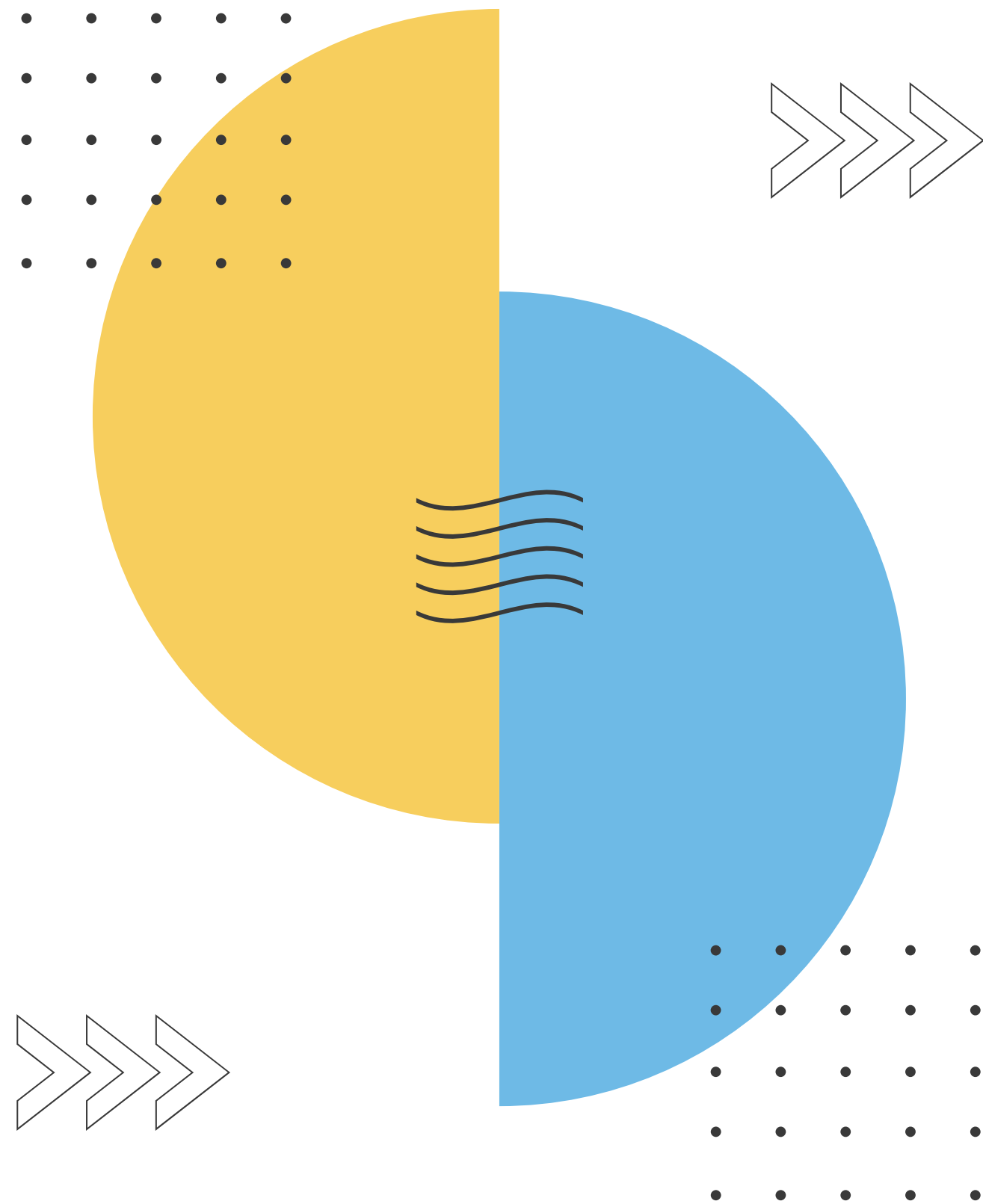




CITIZEN SCIENCE IN LITHUANIA:

DOES OUR SCIENCE AND INNOVATION ECOSYSTEM ANTICIPATE THE INPUT OF CITIZENS?

Monika Mačiulienė

*Head of the Lithuanian Citizens' Science Association
Head of the Citizen Science Hub at Vilnius Tech*



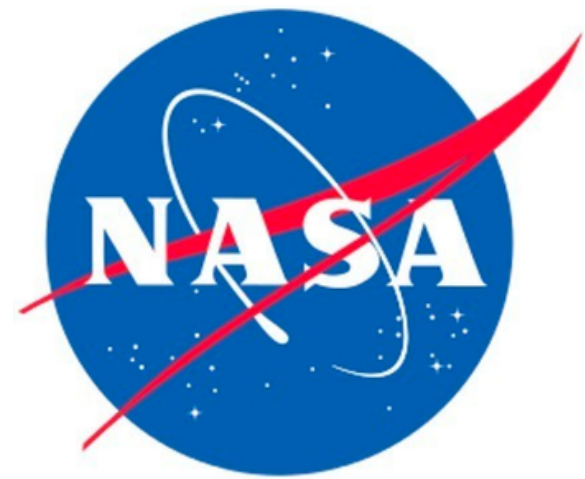
definition:

CITIZEN SCIENCE

A LOT of definitions available
Field is still growing & evolving

In the most basic sense:

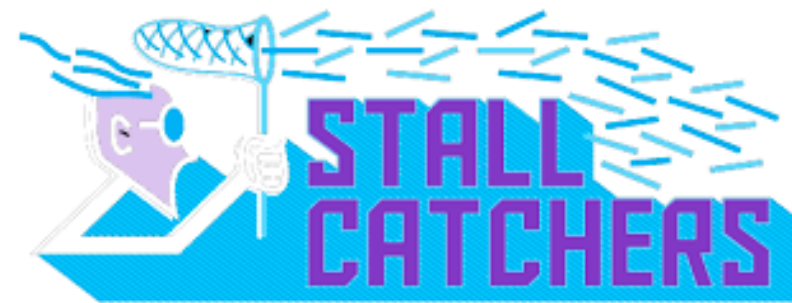
*Citizen science is when the public
voluntarily helps conduct scientific
research.*



examples of
large scale
citizen science
projects world
wide



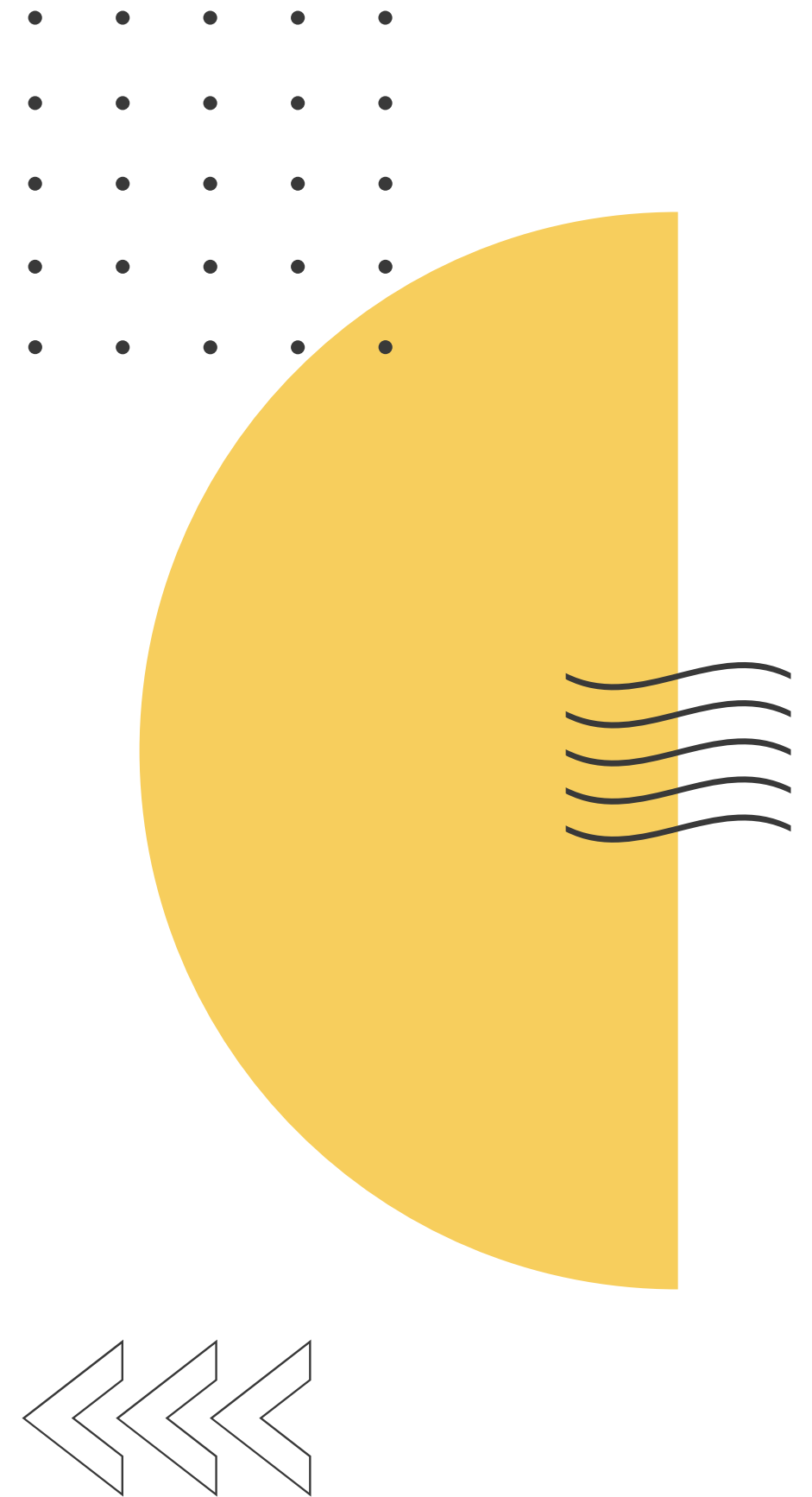
ZOONIVERSE



CITIZEN AND OPEN SCIENCE IN EU

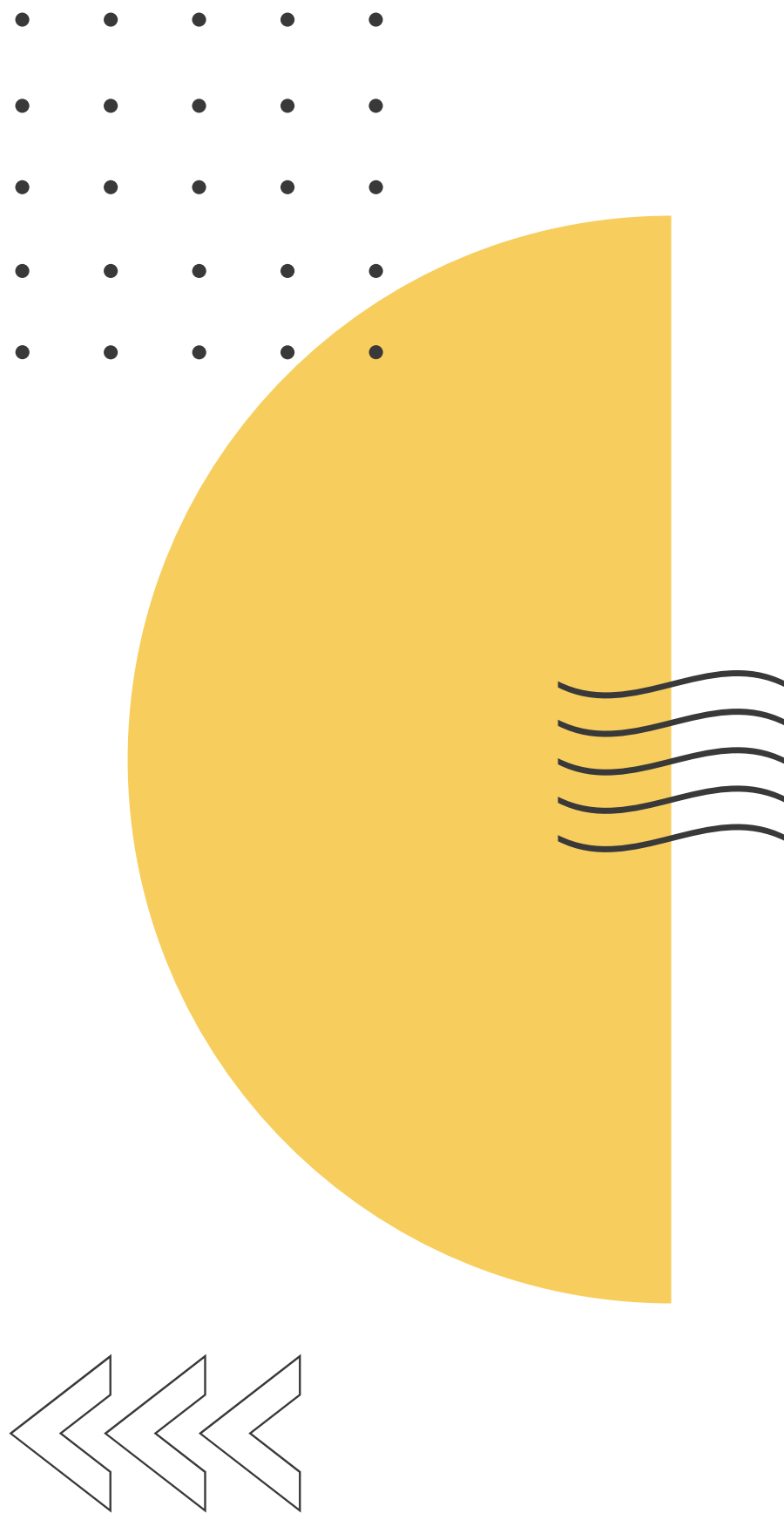
H2020 = pilots of Open Science and citizen engagement activities
Horizon Europe = the importance of openness in science
established

Open science is not limited to freely available research data and open-access databases. Openness is also sought through collaboration - by expanding the audiences, developing new methods of research organization and engaging the public in various forms.



DEVELOPMENTS RELATED TO CITIZEN SCIENCE IN LITHUANIA

- Public policy debate and legislation related to Citizen Science in Lithuania are still limited (focus mostly Open Access aspects);
- BUT > plenty of initiatives by scientists, librarians, university administrations and citizens themselves.



CITIZEN SCIENCE ASSOCIATION ESTABLISHED IN 2020



pilieciumokslas.lt

PILIEČIŲ MOKSLAS

BENDRUOMENĖ

TARPTAUTINĖ PATIRTIS

NAUJIENOS

PILIEČIŲ MOKSLO NAUJIENOS LIETUVOJE



CITIZEN SCIENCE RELATED EVENTS

Perspectives of Citizen Science in Lithuania

September 13th, 15:00 – 18:00

Vilnius TechPark, Antakalnio g. 12

Event organizers:

Mokslo finansavimas

Mokslo politika

Mokslo kokybė

- Programa „Europos horizontas“
- Misijos
- Teminės sritys ir nacionalinių kontaktinių atstovų (NCP) paslaugos
- Kas naujo „Europos horizonto“ programoje?
- „Europos horizonto“ kvietimai
- Renginiai**
- 2022 m. rudens „Europos horizonto“ renginių ciklas
- Partnerių paieška
- Lyčių lygybė
- Programa „Horizontas 2020“

Europos horizontas → Renginiai

Seminaras, skirtas piliečių įtraukimo į mokslą klausimams

2021-11-15

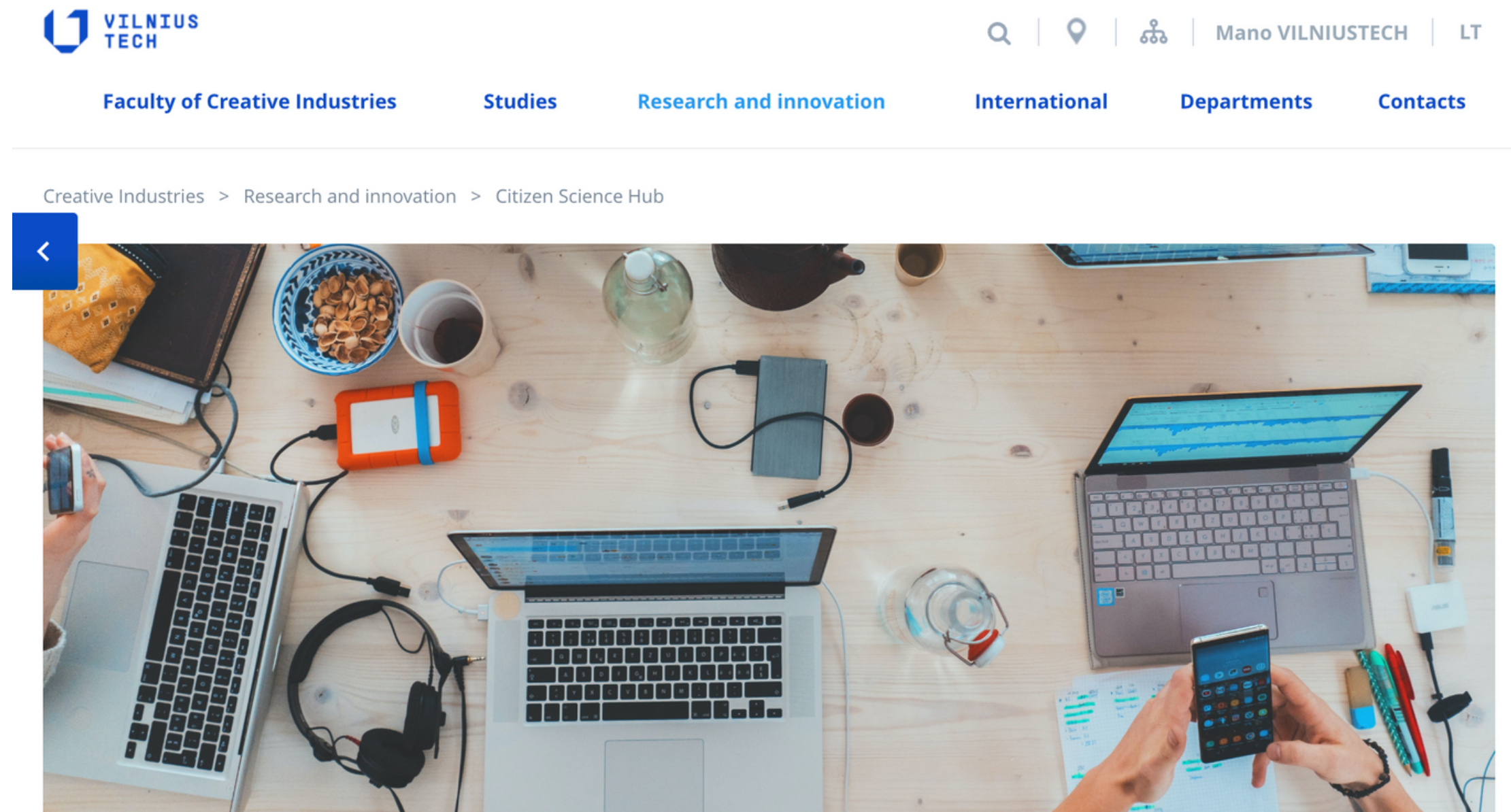
„Europos horizonto“ renginiai

Lietuvos mokslo tarybos Nacionaliniai kontaktiniai atstovai (NCP) kviečia į seminarą „Piliečių įtraukimas į mokslą“. Pranešimą piliečių įtraukimo į mokslą tema skaitys Europos Komisijos politikos pareigūnas Linden Farrer. Lietuvos mokslininkų patirtimi pasidalys dr. Eglė Butkevičienė (Kauno technologijos universitetas) ir dr. Greta Gyraitė (Klaipėdos universitetas). Dr. Eglė Butkevičienė pristatys Piliečių mokslo asociacijos veiklą ir savo patirtį įtraukiant piliečius į mokslo tyrimus. Dr. Greta Gyraitė supažindins su piliečių dalyvavimo aplinkosauginiuose tyrimuose patirtimi ir rezultatais. Programoje (atsiųsti programą) numatytos klausimų ir atsakymų sesijos.

CITIZEN SCIENCE HUB IN VILNIUS TECH ESTABLISHED IN 2022

Objectives of the Hub

- to raise awareness about benefits of Open Science, CS, and principles of RRI;
- to prepare training resources in local language;
- to promote the implementation of RRI, CS and Open Science principles into different stages of the research process;
- to create networking opportunities for community members willing to participate in co-creative research;
- to facilitate the development of new competencies and skills in Vilnius Tech.



VILNIUS TECH - CITIZEN SCIENCE HUB

Vision: To create a platform supporting community and partners of Vilnius Tech in conducting Research & Innovation based on active engagement of civil society and principles of RRI

OPEN SCIENCE GUIDELINES DEFINED BY VILNIUS UNIVERSITY IN 2022 (WITH AN EMPHASIS ON CITIZEN ENGAGEMENT)

*"The Guidelines for the Open Science Policy of Vilnius University (hereinafter referred to as "the Guidelines") set out the main policy directions of Vilnius University (hereinafter referred to as "the University") related to open access to scientific (artistic) publications and research data, open educational resources, open science assessment, infrastructure, data protection and competence development, **citizen science** and other aspects of open science. The purpose of the Guidelines is to establish and consolidate the basic principles and provisions that guide the implementation of the University's open science policy."*



EXAMPLES PROJECTS WITH CITIZEN SCIENCE ELEMENTS FUNDED BY RESEARCH COUNCIL OF LITHUANIA



- CITIZEN SCIENCE AS AN INNOVATIVE FORM OF CITIZEN PARTICIPATION FOR WELFARE SOCIETY DEVELOPMENT (CS4WELFARE)
- IMPLEMENTED BY KAUNAS UNIVERSITY OF TECHNOLOGY
- NR. P-GEV-20-28

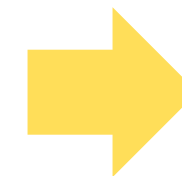


- ADVANCED MODELS, CITIZEN SCIENCE AND BIG DATA FOR SUSTAINABLE INLAND FOOD PRODUCTION AND ECOSYSTEM SERVICES
- IMPLEMENTED BY NATURE RESEARCH CENTRE
- NR. 01.2.2-LMT-K-718

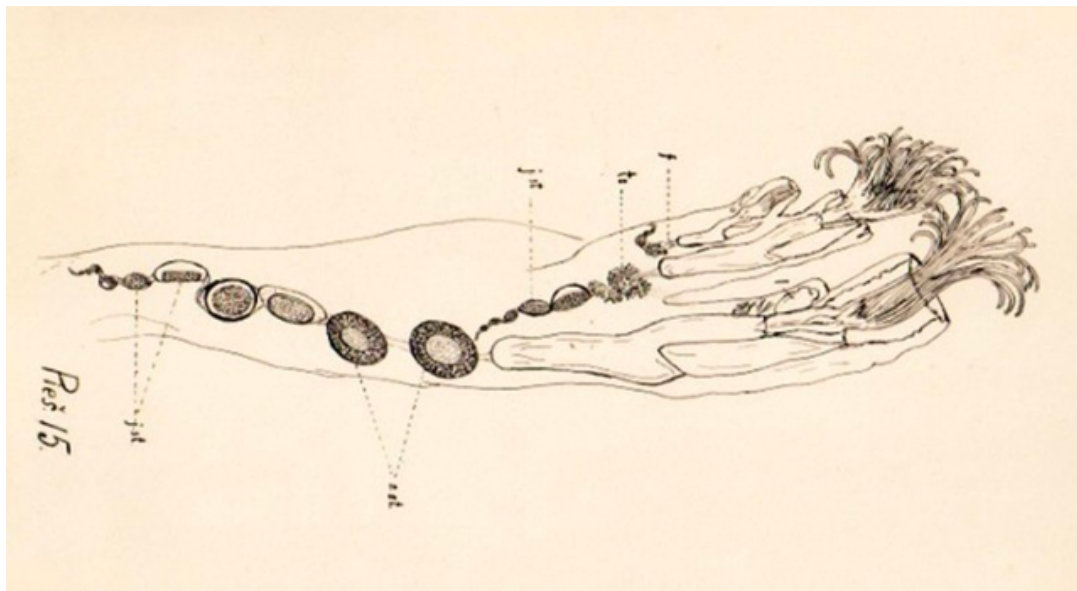
EXAMPLES OF LARGE SCALE EUROPEAN PROJECTS WITH LITHUANIAN BENEFICIARIES FROM LITHUANIAN RESEARCH INSTITUTIONS



CITIZEN SCIENCE IN LITHUANIAN SCHOOLS



PROJECTS INITIATED BY INDIVIDUAL RESEARCHERS, COMMUNITIES, CITIZENS



BRONĖS
PAJIEDAITĖS
TAKAIS (@Vytautas
Magnus University)



RŪŠIŲ RALIS (annual
event)



Birdlife.lt

RESOURCES IN LITHUANIAN ON CITIZEN SCIENCE



monograph



methodological guidelines

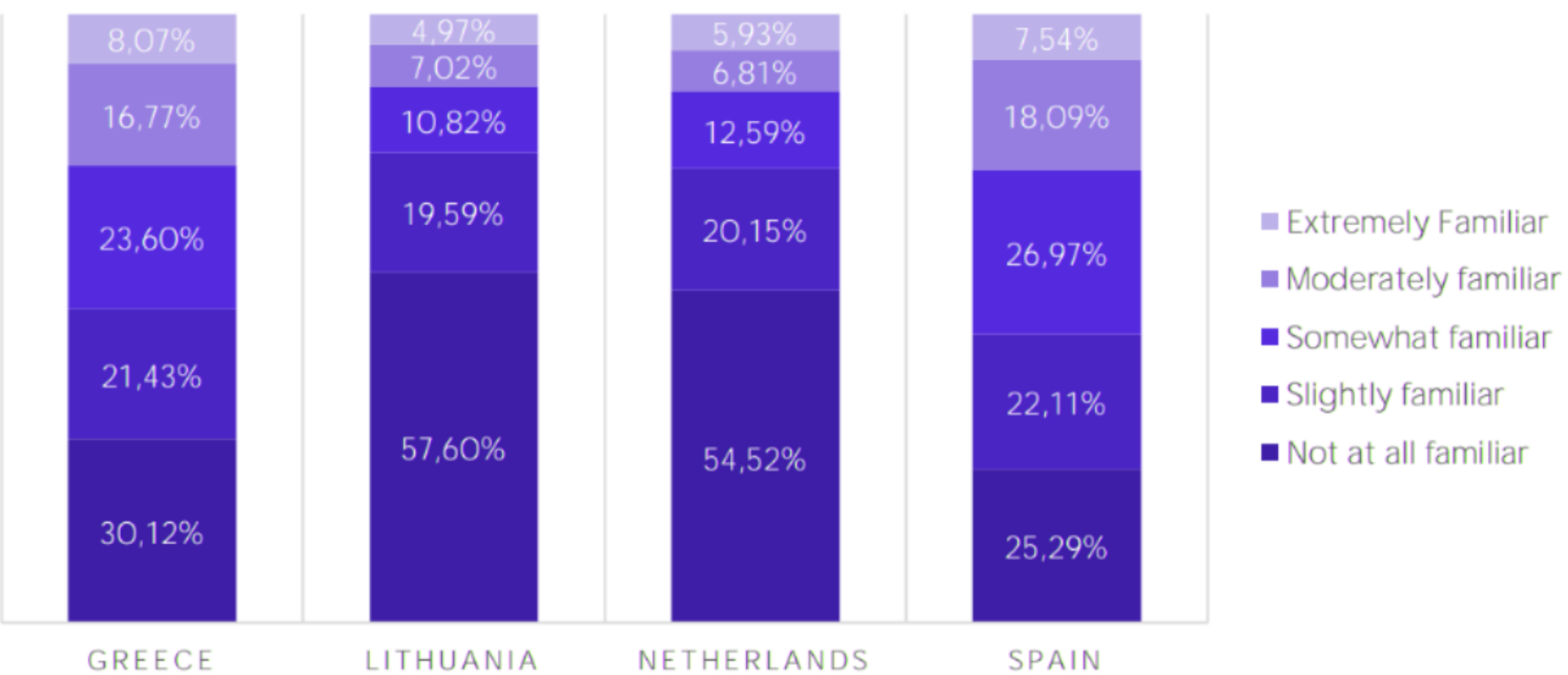


public policy recommendations

****all available on www.pilieciummokslas.lt**

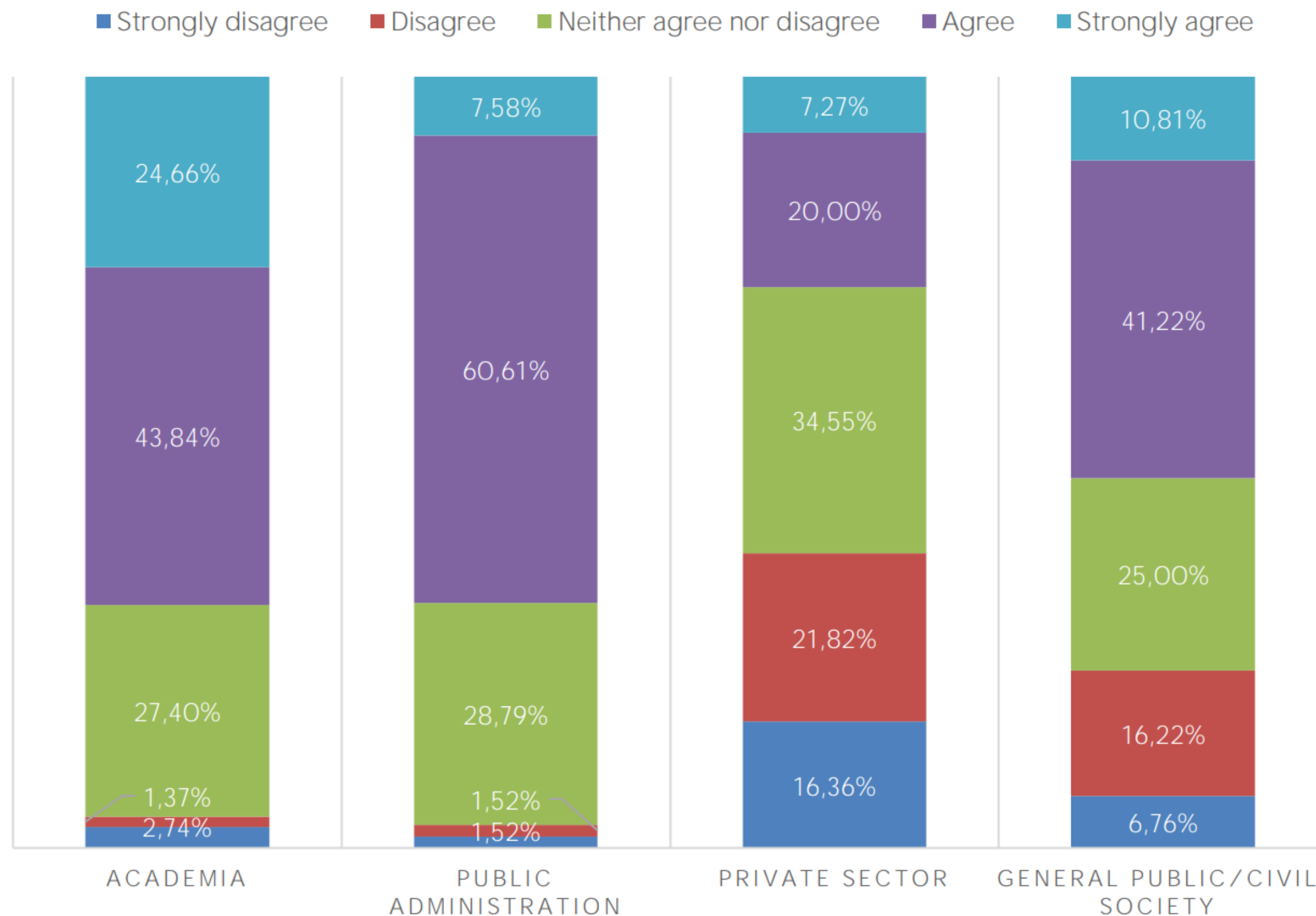
Results of large-scale survey conducted in the context of INCENTIVE project in 2021 in Greece, Lithuania, Netherlands and Spain.

Total sample: 1936; Lithuanian sample: 342
 Respondents: quadruple-helix groups (industry, public administration, academia and civil society)



Level of familiarity with the term "Citizen Science"

Source: INCENTIVE project report "Requirements and motivations of quadruple helix stakeholders for active engagement in the Citizen Science"



Willingness to join Citizen Science activities in Lithuania (per stakeholder group)

Source: INCENTIVE project report "Requirements and motivations of quadruple helix stakeholders for active engagement in the Citizen Science"

ADDED VALUE OF CITIZEN SCIENCE

Findings from CS4Welfare project

Methodology used: 30 interviews with stakeholders (scientists, policy-makers, teachers, librarians, etc.)



The opportunity to formulate problems together with scientists (responding to individual or community needs); Self-realisation; Opportunity to work with like-minded people; A sense of power as a citizen; Curiosity-raising; Power-sharing, reduction of information asymmetries; Strengthens family relationships (if involved together)

Framing of topical problems;
More data can be collected;
Highlighting problems that would otherwise be overlooked;
Saves time;
Ensures continuity of research;
Building personal relationships with researchers

ADDED VALUE OF CITIZEN SCIENCE

Findings from CS4Welfare project

Methodology used: 30 interviews with stakeholders (scientists, policy-makers, teachers, librarians, etc.)



Students in all levels of
education

Opportunities for growth;
Opportunities to apply
skills in formal education

System of research of
innovation

Getting young people interested in
careers in science; A new way to
tell science stories in an engaging
way; Increasing public confidence
in science (and its system);
Enhancing the reputation of
science institutions

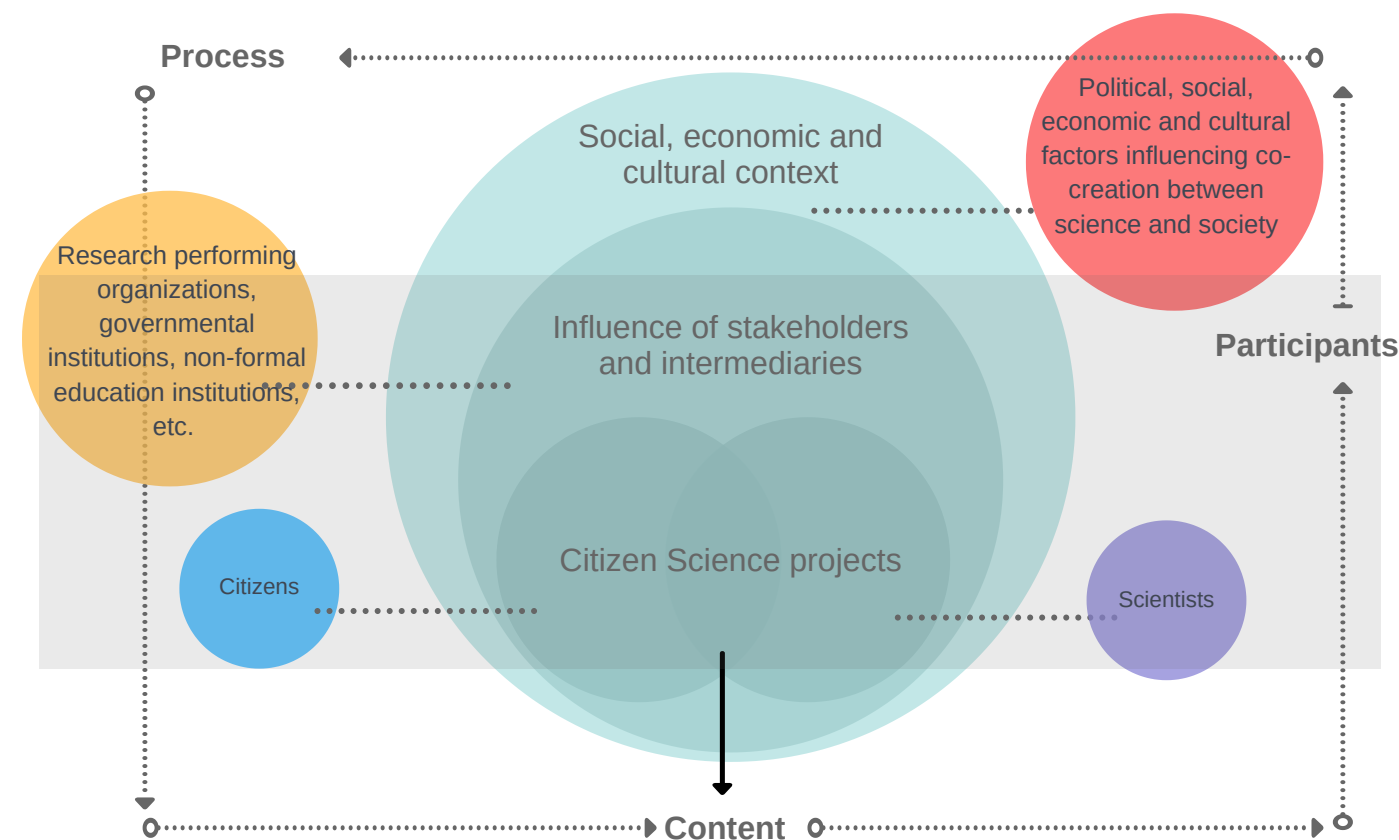
Society and environment

Creating new attitudes of citizens
towards the environment, society,
science; Changing the behaviour
of members of society; Additional
resource for solving social
problems

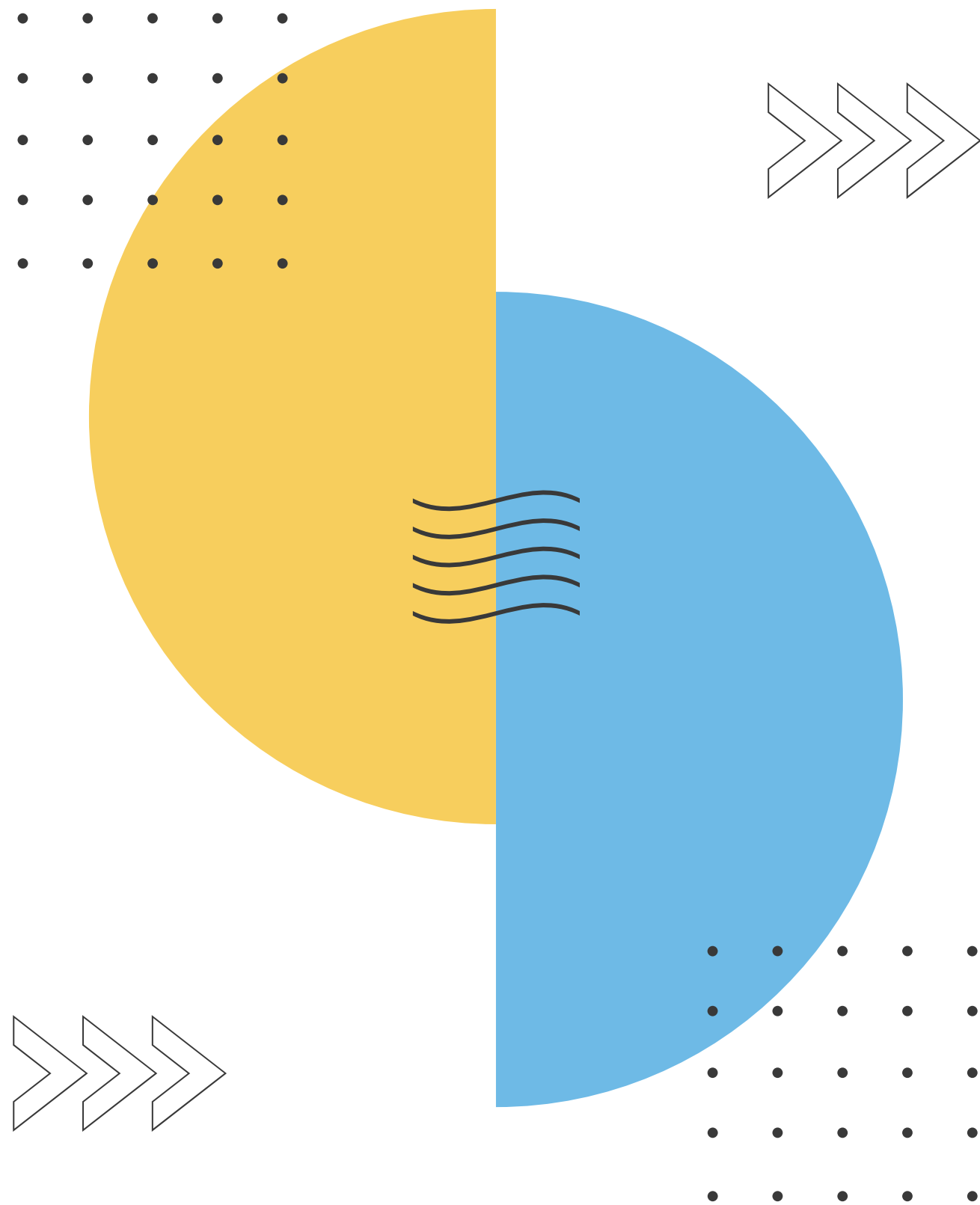
BARRIERS AND DRIVERS OF CITIZEN SCIENCE IMPLEMENTATION IN LITHUANIA

Findings from CS4Welfare project

Methodology used: 30 interviews with stakeholders (scientists, policy-makers, teachers, librarians, etc.)



- Fragmented understanding of the concept of citizen science;
- Limited institutional support;
- Evaluation focused on articles in high-impact journals and not the Open Science related activities > Lack of motivation by scientists;
- Limited understanding among stakeholders on the principles of the design, implementation and management of citizen science projects;
- Limited skills in communication and science outreach;
- Lack of cooperation between different stakeholder groups.



THANK YOU!

Q&A

CONTACT INFO:
MONIKA.MACIULIENE@VILNIUSTECH.LT