



NARA  **SK**
NÁRODNÁ RECYKLAČNÁ AGENTÚRA SLOVENSKO

Presentation of the association

2020 – V2 -A

Bankové spojenie: VÚB, a.s.

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IČ DPH: **neplatca**

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Právna forma: 701 Združenie (zväz, spolok, spoločnosť, klub ai.)

Our goals

NARA-SK aims to promote the application of the Circular Economy to public-private cooperation by creating partnerships in the **Public Private Partnership (PPP CE)** format. The partnerships include producers of recovered waste, design offices, secondary schools and universities, waste management experts, scientific and research institutes, municipalities, municipalities and municipalities for waste management, civic associations and non-profit organizations, developers, construction and commercial companies. The purpose of the PPP CE partnership is to apply the results of applied research, products, products and services to mutual cooperation and promotion in practical life.

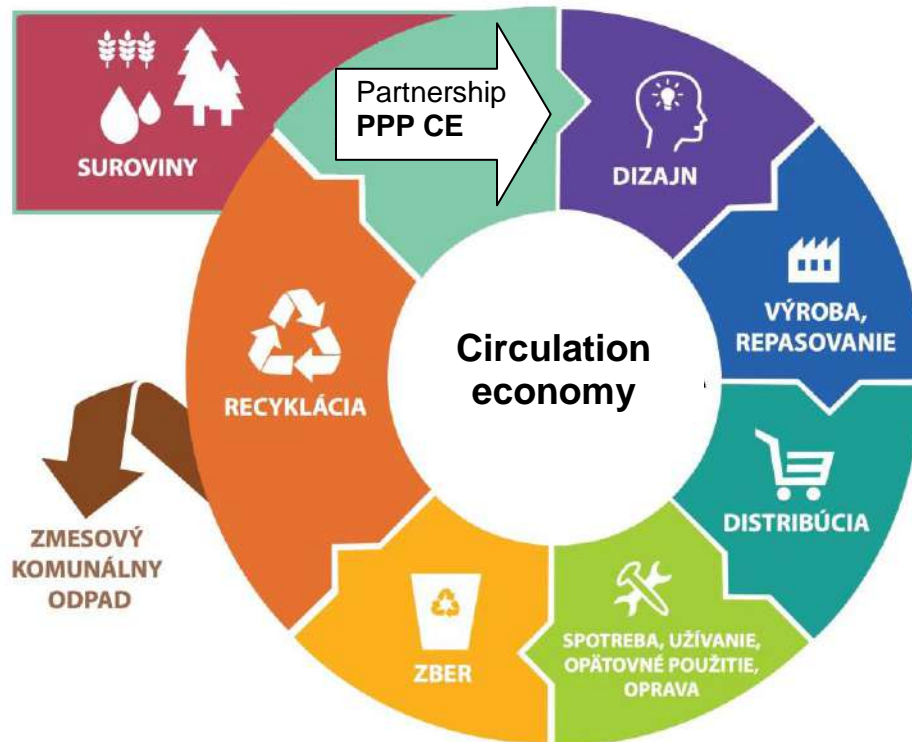
NARA-SK provides advisory and consultancy services, education in the field of its activities. An important part is education and enlightenment of public administration and population in the application of circular economy, technical solutions for biodiversity recovery, adaptation measures to mitigate the impacts of climate change, low carbon economy and for the application of construction products and technical solutions using recycled and recycled materials, **Life Costing Assessment (LCA)** and **Life Cycle Costing (LCC)** materials.

NARA-SK strives to promote positive changes in the attitudes of the population, public administration, self-government and business sector to the issues of healthy environment and to improve public awareness of the current state of the natural and environment as well as related matters, especially the application of products made from waste, the transition from a linear economy to a circular economy.

NARA-SK creates balanced and healthy relationships in production, trade and services. The aim of the association is to help build and develop a civil society based on the principles of democracy, freedom, the rule of law, justice, responsibility and solidarity. It is involved in the preparation of public procurement and tendering on the principles of green and social procurement. For its partners, it ensures the processing of the Environmental Value of a product, product, service to calculate the full cost of ownership over the life cycle - TCO. The result is **MONEY FOR VALUES**.

NARA-SK proposes measures that can prevent environmental pollution, reduce environmental pollution or prevent damage to the environment and human health, measures improving the environment.

NARA-SK is particularly committed to creating solutions and creating a society-wide order to accept solutions on three **environmental, social, and economic aspects**, while promoting strategic interests under current legislation, but also to initiate legislative changes.



The circular economy is a tool for a sustainable development strategy based on striking a balance between nature and human society. Our NARA-SK strategy is to create balanced and healthy relationships in production and trade. The various tools and methods of the circular economy that we apply are related to the motivation in reducing the environmental burden. Through gradual steps we ensure that production flows are closed perfectly so that no waste or waste is produced entered as a raw material within the production and trade chain. So that any waste does not end up in landfills, incinerators and does not contaminate air, water, soil.

It must be a long-term and irreversible process. And it has to be set up correctly both technologically and economically. That is why we make sure that there is no “small home” in the supply chain. By this we mean any investment aimed at profit from a commercial transaction with a short-term or even negative environmental impact. We distance ourselves from collecting taxes and charges that do not serve to support projects to reduce environmental burdens, but to experience a new form of eco-bureaucracy.

On positive examples, we convince our members and partners that prosperity from environmentally positive behavior not only brings environmental quality, but also long-term economic profit and employment. What technological development causes - unemployment in society - is being replaced by new work. At the same time, we ensure that these new job opportunities are fairly socially valued. So that they do not disappear before they enter the market because of recklessness.

We are convinced that, as nature has the law of conservation of energy, our civilization and free market must be governed by the law of conservation of work and human creativity. Fortunately, unlike man, nature cannot be deceived. We are open to anyone who not only knows but also honors the essence of these three principles: **Environmental - Economic - Social.**

WE BUILD PARTNERSHIPS IN THE CIRCULAR ECONOMY



Pedologist, Academician of SAS

1994 - Minister of the Environment.
He was involved in the research of soil formation and protection.



Climatology

He works at the Research Center of global change of AS CR in Brno.



Academician of SAS

1998- 2006- Minister of the Environment.
Head of UNESCO Department at TUZVO
Author of many scientific articles



Expert in foundation engineering

He worked in research and development. He wrote 2 scientific monographs in the field of geosynthetic applications



Biodiversity

At the Agency for Nature Conservation and Landscape Protection The Czech Republic is dedicated to the issues of care for nature and landscape.



Hydrology

Technical Sciences Candidate in Hydrology and Water Management.



Research worker of SAS

Forest engineer
Forestry expert
Author of many scientific articles



Hydrogeology

Water Protection Activist
Founder of the Institute of Water Policy



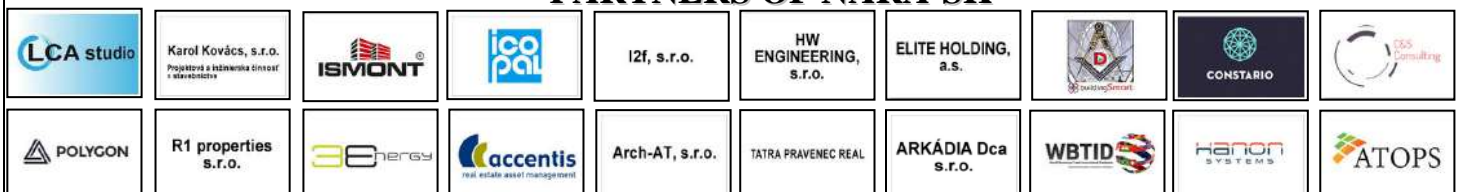
Water manager

Founder MVNO People and Water
Goldmann Prize Holder environment

MEMBERS OF NARA-SK



PARTNERS OF NARA-SK



COOPERATING ORGANIZATIONS



SOLUTIONS ON THE CIRCULAR ECONOMY PRINCIPLE

Solutions are validated by applied research in university research centers:



Technical university of Zvolen – TUZVO



Slovak University of Agriculture Nitra - SPU Nitra



Technical University of Košice - TUKE, Faculty of Civil Engineering



Brno University of Technology - Brno
University of Technology – VUT Brno

The solutions are based on three principles of the Circular Economy:

1. Environmental - water retention measures for parking areas, car parks, footpaths, cycle paths, landscaping, vegetation green roofs - fulfilling the function of water retardation, on-site infiltration, improving retention capacity of treated areas, mitigating temperature stress in the area, restoring biodiversity of animal and plant species, thermal and acoustic insulation of buildings to determine **life cycle analysis and evaluation (LCA and LCC)**.

2. Economic - use of materials from recovered waste and materials with low carbon footprint, **environmental assessment III. degree EPD (LCA analysis)** - support of waste management solution for the application of the circular economy in accordance with the Waste Act, the Waste Management Program of the Slovak Republic and Environ strategy 2030 to set **MONEY FOR VALUES**.

3. Social - creation of green jobs (**GREEN JOBS**) - solutions are based on a simple technical design solution, they allow work to be carried out under the supervision of less skilled and skilled workers, they have a high share of self-education.

- environmental impact assessment - **GREENPASS®**

The proposed technical solutions are supported by technical calculations in order to prove the value of detention in the country not only in quantity, ie over time. Solutions take into account the periods without rain and are designed for a design of 15 min. rain with periodicity $p = 0.033$ - protection of the territory against flooding of the territory according to legal regulations. Project solutions provided by experts recommended by NARA-SK meet the legal requirements for water retention measures:

1. Correct design of **HYDROLOGY** - data on design rainfall and correct periodicity (protection of the territory against flooding of the territory)
2. Flow **HYDRAULICS** calculation and retention generation over time based on 15 min. design rain
3. Reports design of **HYDROTECHNICAL** objects according to hydraulic calculation - vegetation roof, open or closed retention tank, correct composition for orchard and vegetation treatment to ensure infiltration of surface rainfall into the soil, correct composition of planting with preservation of natural plant and wood species for biodiversity recovery and capture dust particles attenuation of dispersion, traffic and working noise as a means of collective protection.

**APPLICATION OF CIRCULAR ECONOMY SOLUTIONS
AT NATIONAL AND INTERNATIONAL LEVEL**

INTERREG EUROPE – PROJEKT BIOREGIO – SPÚ NITRA, stakeholder



**Interreg
Europe**



European Union | European Regional Development Fund

HORIZONT 2020 – PROJEKT PARADE – TUKE STF, stakeholder



ERASMUS+ - PROJEKT CIRCLEVET - partner



Erasmus+

OP EVS – PROJEKT ENPAUS – NARA-SK experts

ENPAUS

(energie - participácia - úspory)



Európska únia
Európsky sociálny fond

OP EVS - FITCUBATOR – NARA-SK experts

FITCUBATOR
IT4TA3



Európska únia
Európsky sociálny fond

AWARDS FOR HISTORY ACTIVITIES



2019 - Honorable mention

Awarded as part of the ENERGOFUTURA 2019 conference for outstanding innovative project solutions and a particular lasting contribution to energy and environmental education and consulting.



2018 - Diploma for participation

Awarded in the Green Mercury 2018 competition for the CE HOUSE project - a house made of materials from recycled waste based on the circular economy principle.



2017 - Diploma for 3rd place

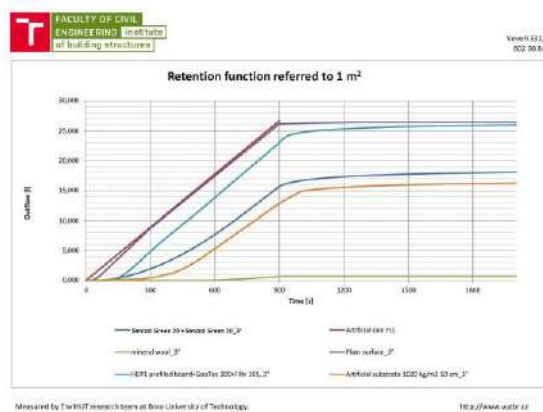
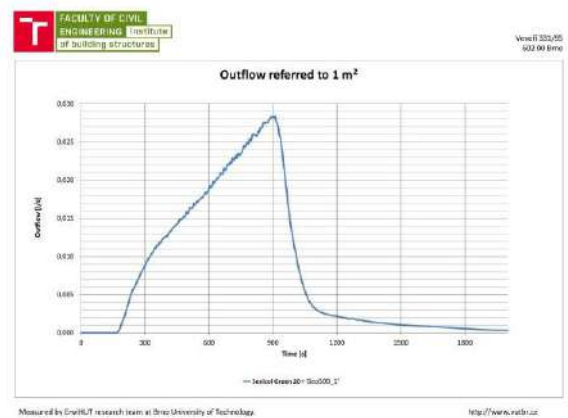
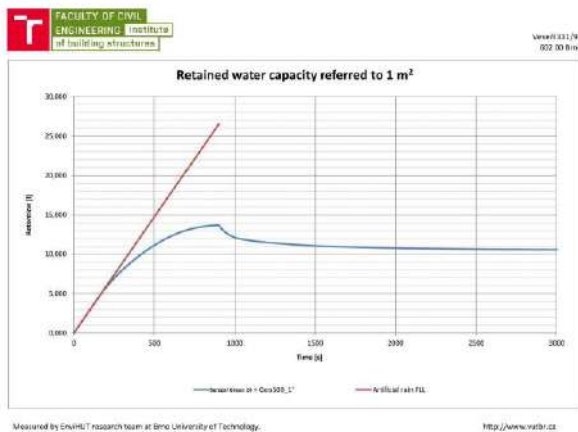
Awarded in the framework of the NATIONAL ENVIRONMENTAL PRIZE in the Slovak Republic for the CE HOUSE project.



2015 - Honorable mention

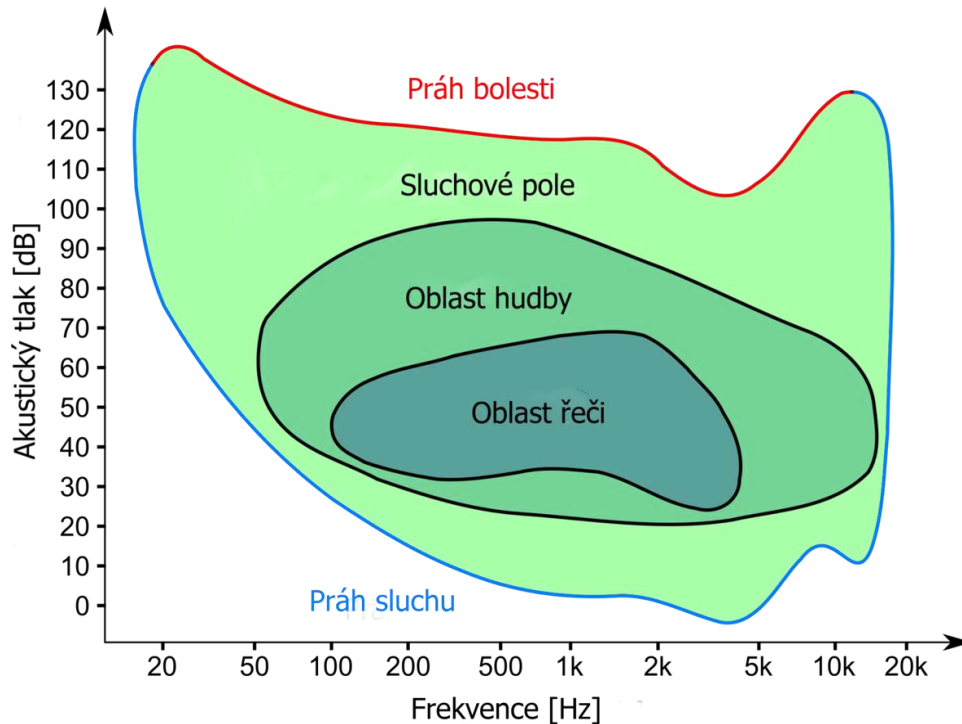
Awarded in the Golden Ant 2015 competition for the Innovative Solutions for Climate Change on a Circular Economy Principle.

VUT BRNO, ADMAS RESEARCH CENTER

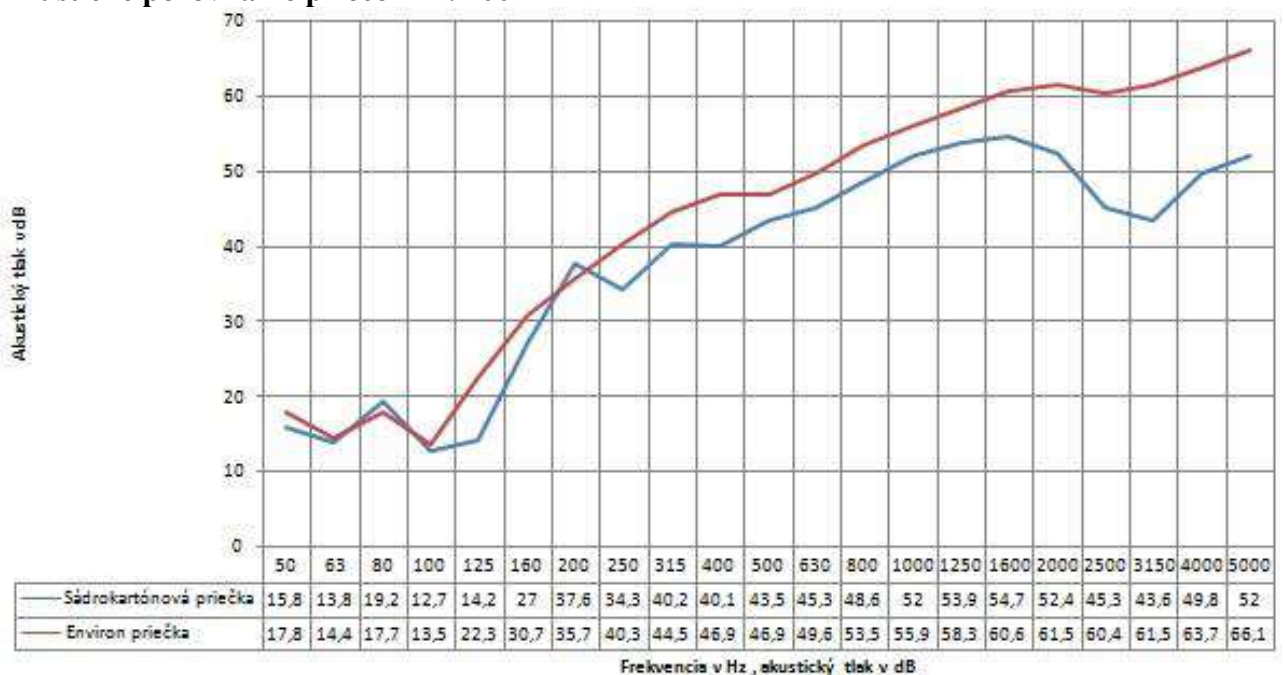


TEST LABORATORY OF BUILDING FACULTY OF TECHNICAL UNIVERSITY BRATISLAVA

Zvukové pole



Akustické porovnanie priečok hr. 100 mm



Environ partition - red line

Gypsum cardboard partition - blue line

Increasing the sound pressure by as little as 2 dB means an increase in acoustic comfort and comfort.

PRIVATE PUBLIC PARTNERSHIP after 2030

PRIVATE PUBLIC PARTNERSHIP (hereinafter **PPP**) is:

- Paradigmatically speaking PPP is the essential tool for implementation politics applied on the track:
 - **from** linear economies (managed in vertical hierarchic structures performing no or inadequate ability to generate savings generated from multiplication of synergic effects (added value) – because of negative performance/s yielded of administrative tradition of previous (national) centuries as well as because of particular/ because of objects' personal motivations involved in administrative processes/interventions,
 - **towards** circular civilization solutions designed on the platform of smart. Collective intelligence, consensus decision (on-line/big data) for global community designed as virtuous circle - as the pre requisite because of both the Earth limits and demographic flip after 2030, respectively 2050.
- **Finally, It is because “PPP” as the operational system is the operational system “on-line” in the brain of man = as the creator of particular (technical) operational system.**

PPP & NARA SK – the story of grow up to the deep dive

- **NARA SK** was created as an image of the non-governmental sector of the 1990s as part of the social and economic transformation in 2015 - with know-how summarizing all previous initiatives directed towards society. Although institutionalized as oz, but initially designed as an association of legal and natural persons from the knowledge - administrative - business sector, with the mission to ensure a holistic solution to the polarity of the environment-economy, through stabilization in a triangle –Country -economics.
- **NARA SK** become in 2017 the second from three members of the Slovak working group of the **HOPE-Hands On Plastic Environment/ERAZMUS** :which operates (10/2017-3/2019) as:
 - **SLOVAK PLASTIC CLUSTER** (executive director Mrs. Mgr. Katarína Ikrényiová, PhD.)
 - **NATUR-PACK, jsc.** (executive director, Mr. RNDr. Michal Sebíň)
 - **NARA SK** (president of the Buerau, Mr. Matej Plesník, DiS.)
- Project coordinator have designed the project content intervention on the ground of the knowledge inputs from mainly first two, above mentioned WG members, however, speaking about operational-administrative methodology of the intervention to the inter-sect oral/vertical society 'environment was essentially designed on the ground of **NARA SK & SLOVAK PLASTIC CLUSTER**' experiences, knowledge and skills.
- HOPE-Hands On Plastic Environment received grant from the Netherland Embassy in Slovakia to participate at the HOLLAND CIRCULAR WEEK- 2018 where the holistic HOPE' intervention strategy was clearly profiled as PPP (see the profile of the project coor.' participation at HCEW-2018, bellow)

- The Slovak Republic took the EÚ' Presidency Seat right after the Netherlands (1st half of 2016) which defined the circular economy 'acceleration as its absolute priority. The promotion of particular content circular innovation is synergic ally united to the procedural innovation for over cross national economies' linearity/verticality towards the virtuous circularity was presented the PPP in picture of "living lab" HOLLAND CIRCULAR HOTSPOT – all around the EU as well as in the world.
- Following to the HCEW-2018 in direct cooperation with Mrs. Jana Šťastná, Economy Secretary a Water Management of the Netherland Embassy in Slovakia was the PPP operational system intuitively applied as an ideal operational approach to set up the Slovak multilateral institutional platform. Three preparatory meetings in 2018 (18.7.2018 – 1.10.2018 – 30.11.2018) were held, the last one in straight participation of the Executive director of the HOLLAND CIRCULAR HOTSPOT, Mr. Freek van Eijk.
- Creation of the Slovak circular economy PPP platform, which would fits into the environment of other national institutionalized platforms in EU, is the competency of the state authorities of the Slovak Republic.
- **NARA SK** already organizes on the same – PPP operational system – the cooperation of the knowledge – administrative – business implementing/administrative stakeholders in region of the District of Banská Bystrica (CIRCULAR HUB-VUC,BB). Towards this aim is in preparatory on project activity – the conference THE CIRCULAR TEXTILE (10.-11.X.2019). From the perspective of Project-Programme Cycle Management methodology it is the project activity designed as the circular event in next future intervening one-by-one sector/operational field of circular economy – based on assessment of national prioritization as well as the both internal NARA SK' knowledge & administrative capacities and external ad-hoc cooperation – in the frame of next regional/Slovak/international CE' platforms.

Matej Plesník, DiS.

Predseda NARA-SK

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NARA SK
NÁRODNÁ RECYKLAČNÁ AGENTÚRA SLOVENSKO



A handwritten signature in blue ink, consisting of several overlapping loops and lines.

Circular Economy Partnership – PPP CE

Partnerstvo obehového hospodárstva – PPP CE



<http://www.narask.sk/konferencia.html>