



TECHNOLOGICKÉ
CENTRUM AV ČR

MOBILITA V PROGRAMU HORIZONT EVROPA

—
Martin Škarka



Pillar 1

Excellent Science

European Research Council

Marie Skłodowska-Curie
Actions

Research Infrastructures

Pillar 2

Global Challenges and
European Industrial
Competitiveness

- Clusters
- Health
 - Culture, Creativity and Inclusive Society
 - Civil Security for Society
 - Digital, Industry and Space
 - Climate, Energy and Mobility
 - Food, Bioeconomy, Natural Resources, Agriculture and Environment

Joint Research Centre

Pillar 3

Innovative Europe

European Innovation Council

European innovation
ecosystems

European Institute of
Innovation
and Technology

Widening Participation and Strengthening the European Research Area

Widening participation and spreading excellence

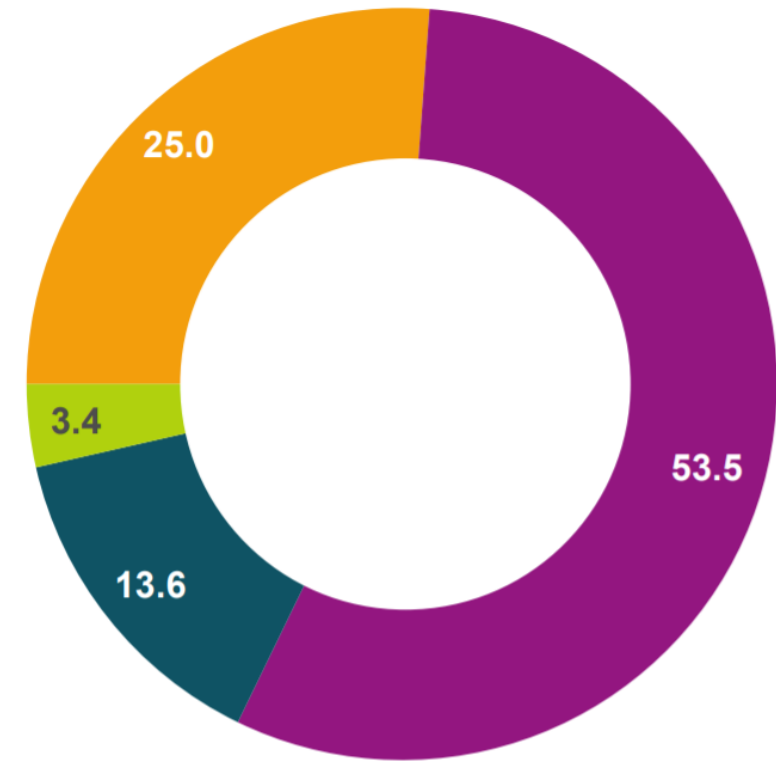
Reforming and Enhancing the European R&I system

ROZPOČET PROGRAMU HORIZONT EVROPA

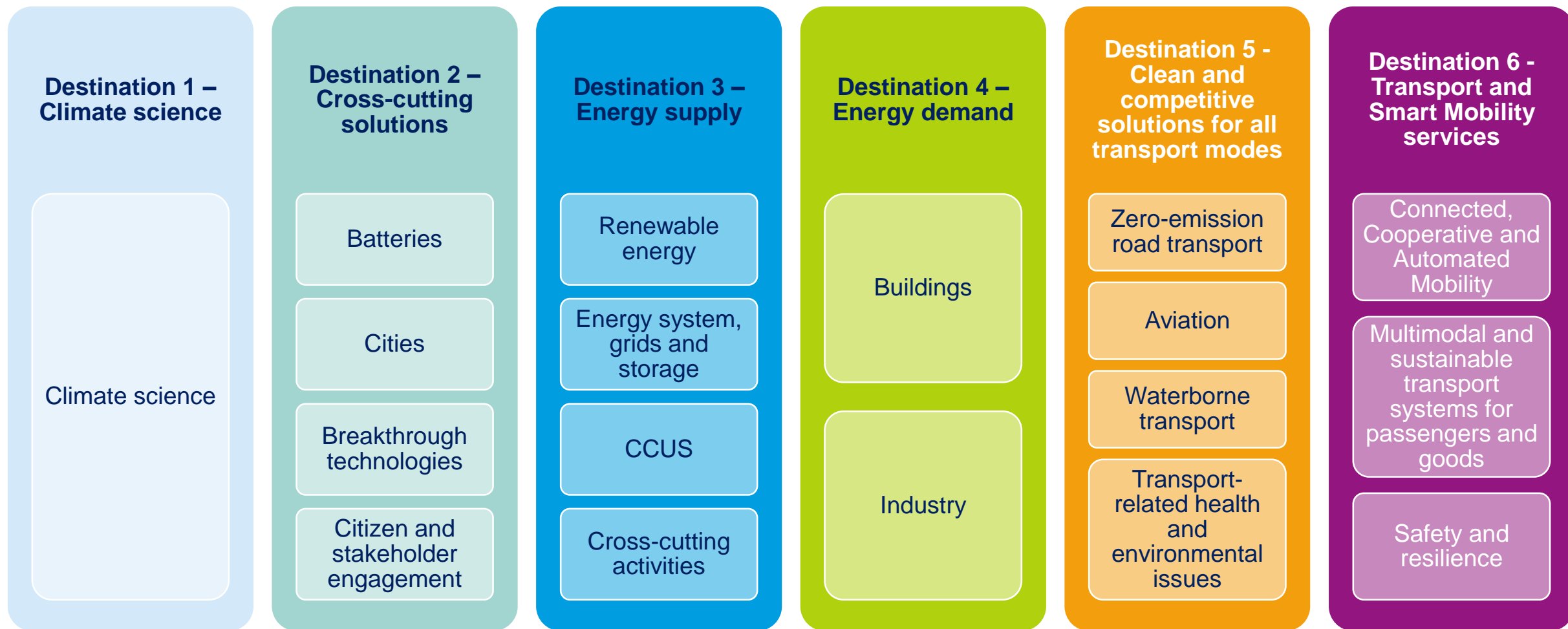
- Rozpočet programu Horizont Evropa: 95.5 miliard € (2021-2027) – navýšení o 30 % oproti H2020 (včetně 5.4 miliard € z NGEU – Next Generation Europe – programme of EU for Recovery from COVID-19 crisis)
 - ❖ Vynikající věda – 25 mld. €
 - ❖ Globální výzvy a konkurenceschopnost průmyslu - 53,5 mld. €
 - ❖ Inovativní Evropa – 13,6 mld. €
 - ❖ Rozšiřování účasti a ERA – 3,4 mld. €



- Rozpočet programu Euratom:
1,38 mld. € (2021 – 2025)



PRACOVNÍ PROGRAM KLASTRU 5 – PŘEHLED (ZDROJ: EK)



TYPY PROJEKTŮ

Výzkumné a inovační akce (Research and Innovation action, RIA) se zaměřují primárně na výzkum.

Inovační akce (Innovation action, IA) jsou zaměřeny především na demonstrační aktivity a pilotní ověřování a směřují tak více k tržnímu uplatnění výsledků výzkumu.

Koordinační a podpůrné akce (Coordination and Support action, CSA). Typicky se jedná o projekty mapující určité vědecko-výzkumné oblasti nebo o projekty zaměřené na pořádání informačních a networkingových akcí.

Projekty **RIA a CSA** standardně nabízejí **100%** míru financování,

U projektů **IA** platí snížená sazba financování ve výši **70%** z celkových způsobilých nákladů. Neziskovým subjektům je však ponecháno **100%** financování,

KLASTER 5 – D5: ČISTÁ A KONKURENCESCHOPNÁ ŘEŠENÍ PRO VŠECHNY DRUHY DOPRAVY

4 základní zaměření:

- Zero-emission road transport
 - Aviation
 - Waterborne Transport
 - Impact of transport on environment and human health
-
- Platí pro léta 2022, 2023, 2024



KLASTER 5 – D6 : BEZPEČNÉ A ODOLNÉ SLUŽBY V DOPRAVĚ A CHYTRÉ MOBILITĚ PRO CESTUJÍCÍ A ZBOŽÍ;

3 základní zaměření:

- Connected, cooperative and automated mobility (CCAM)
 - Multimodal and sustainable transport systems for passengers and goods
 - Safety and resilience – per mode and across all transport modes
- Platí pro léta 2022, 2023, 2024



KLASTR 5 – UZÁVĚRKY 2022

Destination 5 - Clean and competitive solutions for all transport modes

Výzva HORIZON-CL5-2022-D5-01 pro rok 2022 s uzávěrkou 26.4.2022; 14 témat; 253 mil. €

Destination 6 - Safe, Resilient Transport and Smart Mobility services for passengers and goods

Výzva HORIZON-CL5-2022-D6-02 pro rok 2022, uzávěrka 6.9.2022 (ot. 28.4.2022); 7 témat; 91 mil. €

DESTINATION 6 – SLUŽBY 2022

Výzva HORIZON-CL5-2022-D6-02 pro rok 2022, uzávěrka 6.9.2022

HORIZON-CL5-2022-D6-02-01	Logistics networks integration and harmonisation through operational connectivity to optimise freight flows and drive logistics to climate neutrality	IA	7.00 to 8.00	15	2
HORIZON-CL5-2022-D6-02-02	Urban logistics and planning: anticipating urban freight generation and demand including digitalisation of urban freight	IA	7.00 to 8.00	15	2
HORIZON-CL5-2022-D6-02-03	Smart enforcement for resilient, sustainable and more efficient transport operations	RIA	Around 4.00	8	2
HORIZON-CL5-2022-D6-02-04	Accelerating the deployment of new and shared mobility services for the next decade	IA	8.00 to 10.00	20	2
HORIZON-CL5-2022-D6-02-05	Advanced multimodal network and traffic management for seamless door-to-door mobility of passengers and freight transport	RIA	4.00 to 5.00	15	3
HORIZON-CL5-2022-D6-02-06	Smart and efficient ways to construct , maintain and decommission with zero emissions from transport infrastructure	IA	Around 5.00	10	2
HORIZON-CL5-2022-D6-02-07	New concepts and approaches for resilient freight transport and logistics networks against disruptive events (including pandemics)	RIA	Around 4.00	8	2

Adaptation to climate change, including societal transformation



MISE MĚSTA - VÝZVY

- Call - Research and Innovation actions to support the implementation of the Climate neutral and Smart Cities Mission HORIZON-MISS-2021-CIT-02
- Opening: 11 Jan 2022 Deadline(s): 26 Apr 2022

- HORIZON-MISS-2021-CIT-02-01: **Urban planning** and design for just, sustainable, resilient and climate-neutral cities by 2030
- HORIZON-MISS-2021-CIT-02-02: Unleashing the innovation potential of **public transport** as backbone of urban mobility
- HORIZON-MISS-2021-CIT-02-03: Framework Partnership Agreement (FPA) for the Climate-Neutral and Smart Cities Mission Platform
- HORIZON-MISS-2021-CIT-02-04: Positive Clean **Energy Districts**
- HORIZON-MISS-2021-CIT-02-05: Global cooperation and exchange on urban climate neutrality


MISE MĚSTA - VÝZVY

- Call - Research and Innovation actions for support the implementation of the Climate neutral and Smart Cities Mission HORIZON-MISS-2022-CIT-01
- Opening: 28 Apr 2022 Deadline(s): 06 Sep 2022
- HORIZON-MISS-2022-CIT-01-01: Designing inclusive, safe, affordable and sustainable **urban mobility**


OVERVIEW OF 49 CANDIDATE EUROPEAN PARTNERSHIPS

PILLAR II - Global challenges & European industrial competitiveness

CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture,...
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth
Transforming Health Care Systems	High Performance Computing	Single European Sky ATM Research 3	Climate Neutral, Sustainable and Productive Blue Economy
Risk Assessment of Chemicals	European Metrology (Art. 185 of the TFEU)	Europe's Rail	Water4All "Water security for the planet"
ERA for Health	Artificial Intelligence, Data and Robotics	Cooperative, Connected and Automated Mobility (CCAM)	Animal Health and Welfare*
Rare Diseases*	Photonics	Batteries "Towards a competitive European industrial battery value chain"	Agroecology "Accelerating Farming Systems Transition"*
One Health / Antimicrobial Resistance*	Made in Europe	Zero-emission Waterborne Transport	Agriculture of Data*
Personalised Medicine*	Clean Steel - Low Carbon Steelmaking	Zero-emission Road Transport (2ZERO)	Safe and Sustainable Food Systems*
Pandemic Preparedness* <i>Co-funded or co-programmed</i>	Processes4Planet	People-centric Sustainable Built Environment (Built4People)	
	Globally Competitive Space Systems**	Clean Energy Transition	
		Driving Urban Transitions to a Sustainable Future	

 Institutionalised Partnerships (Art 185 or 187 of the TFEU)

 Co-Programmed

 Co-Funded

* Calls with opening dates in 2023-24

** Calls with opening dates not before 2022



11 EVROPSKÝCH PARTNERSTVÍ V KLASTRU 5

Institucionalizovaná partnerství:

- European Partnership for Transforming Europe's **rail**
- European Partnership for Integrated Air Traffic Management (ATM)
- European Partnership for Clean Aviation
- European Partnership on Clean Hydrogen

Společně programovaná partnerství:

- European Partnership for People-centric sustainable built environment (**Built4People**)
- European Partnership – Towards zero-emission **road** transport (2ZERO)
- European Partnership on Connected and **Automated Driving** (CCAM)
- European Partnership on zero-emission waterborne transport (ZEWT)
- European Partnership for an Industrial Battery Value Chain

Společně financovaná partnerství:

- European Partnership – driving **urban** transitions to a sustainable future (**DUT**)
- European Partnership for Clean Energy Transition (CET)

HORIZON EUROPE WORK PROGRAMME 2023-2024

- Neoficiální a neschválený návrh pro klastr 5 Climate, Energy and Mobility a další klastry
- Version 28 January 2022
- Neobsahuje termíny a rozpočty
- Obsahuje návrh témat na roky 2023 a 2024
- Členění shodné jako u WP na 2022 :
- Doprava v destinacích 5 (řešení) a 6 (služby)
- Destinace 5 – **silniční**, letecká a lodní doprava a vliv na zdraví
- Destinace 6 – **autonomní doprava**,
 - multimodální doprava, infrastruktura a logistika
 - **bezpečnost a odolnost**
- https://sciencebusiness.net/sites/default/files/inline-files/Cluster%205%20WP%202023-2024_1st%20draft_2022-01-28_PC.pdf

VYZVA DESTINATION 5 – 2023

Zero-emission road transport

D5-1-3 User-centric design and operation of **ZEV** for optimized energy efficiency (2023)

D5-1-4 B - Innovative **battery** management systems for next generation vehicles (2Zero & Batteries Partnership) (2023)

D5-1-5 User-centred and co-designed shared, automated and zero-emission **mobility systems** and services for people and goods (2Zero, CCAM and Cities' Mission) (2023)

D5-1-6. Frugal zero-emissions vehicles concepts for the **urban** transport challenge (2023)

D5-1-7. **Circular economy** approaches for zero emission vehicles (2023)

D5-1-11. Measuring road transport results towards 2Zero KPIs

D5-1-12. EU Member States research policy cooperation network to accelerate zeroemission road mobility (2023)

VYZVA DESTINATION 6 – 2023

Connected, Cooperastive and Automated mobility

D6-1-2. User-centric development of vehicle technologies & services to optimise the **onboard experience** and ensure inclusiveness (2023, RIA, TRL 5)

D6-1-3. Generation of scenarios for development, training, virtual testing and validation of **CCAM systems** (2023, RIA, TRL 5)

D6-1-5. Infrastructure-enabled solutions (e.g. Digital Twins) for improving the continuity or extension of **Operational Design Domains (ODDs)** (2023, IA, TRL 6-7)

D6-1-8. Integrating European diversity in the design, development and implementation of CCAM solutions to support mobility equity (2023, RIA)

D6-1-9. **CCAM effects on jobs** and education, plans for skills that match the CCAM development, and prerequisites for employment growth (2023, RIA)

VYZVA DESTINATION 6 – 2023

Safety and resilience :

Safety in Urban Areas/ Road Transport Safety

D6-3-1. **Effects of disruptive changes** on transport safety issues (2023)

D6-3-2. Establishing a framework to **improve traffic safety culture** in the EU (2023)

D6-3-3. **Better infrastructure safety** on urban and secondary rural roads throughout a combination of adaptable monitoring and maintenance solutions (2023)

PORTÁL EK: FUNDING & TENDER OPPORTUNITIES

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>

European Commission | Funding & tender opportunities
Single Electronic Data Interchange Area (SEDIA)

English
Register Login

SEARCH FUNDING & TENDERS HOW TO PARTICIPATE PROJECTS & RESULTS WORK AS AN EXPERT SUPPORT

Horizon Europe (HORIZON)

Type your Keywords...

Match whole words only

GRANTS TENDERS

Submission status

Forthcoming(6) Open for submission(2) Closed

Programming period

Select a Programme period...

Horizon Europe (HORIZON)

Funding and tenders (8)

Need help? Sort by: Submission status

Grant ERC STARTING GRANTS

Open for submission

Programme	Horizon Europe (HORIZON)	Deadline model	single-stage
ID	ERC-2021-STG	Opening date	25 February 2021
Types of action	HORIZON ERC Grants	Deadline date	08 April 2021 17:00:00 Brussels time

Grant EU Prize for Women Innovators

Open for submission

Programme	Horizon Europe (HORIZON)	Deadline model	single-stage
ID	HORIZON-EIC-2021-WomenInnovatorsPrize	Opening date	18 March 2021
Types of action	HORIZON Recognition Prize	Deadline date	30 June 2021 17:00:00 Brussels time

Grant The European Capital of Innovation Awards

▪ *Registrace*

- ✓ jedince, organizace
- ✓ management projektu

▪ *Search Funding and Tenders*

- ✓ hledání podle klíčových slov či struktury programu

▪ *How to Participate Reference Documents*

- ✓ pracovní programy
- ✓ šablony
- ✓ modelová grantová dohoda



WWW.HORIZONTEVROPA.CZ

The screenshot shows a web browser window displaying the website horizontevropa.cz/cs. The browser's address bar and tabs are visible at the top. The website's main navigation bar is blue and contains the text "HORIZONT EVROPA" on the left, a search icon, and a menu icon on the right. Below the navigation bar, there are six service tiles arranged in a 2x3 grid:

- Naše služby** (Our services)
- Projekt od A do Z** (Project from A to Z)
- Právní a finanční aspekty** (Legal and financial aspects)
- Hodnocení rámcových programů** (Evaluation of framework programs)
- Malé a střední podniky** (Small and medium enterprises)

Below these tiles is a section titled "Program Horizont Evropa a ERA" (Horizon Europe and ERA Program). This section features six video thumbnails with the following titles:

- Excelentní věda (Excellent science)
- Globální výzvy a konkurenceschopnost (Global challenges and competitiveness)
- Inovativní Evropa (Innovative Europe)
- Rozšiřování účasti a posilování ERA (Expanding participation and strengthening ERA)
- Euratom
- Mise (Mission)

The bottom of the screenshot shows the Windows taskbar with the search bar containing "Sem zadejte hledaný výraz" (Enter search term here), several application icons (Word, File Explorer, Chrome, Outlook, PowerPoint, Adobe Reader), and system tray information including the date "05.02.2022" and time "14:02".



[HTTPS://WWW.HORIZONTEVROPA.CZ/CS/PUBLIKACE/YIIFPUBLICATI
ONS/2/HORIZONT-EVROPA--STRUCNE-O-PROGRAMU](https://www.horizontevropa.cz/cs/publikace/yiifpublications/2/horizont-evropa--strucne-o-programu)

HORIZONT EVROPA

Stručně o programu

Kolektiv autorů Národního informačního centra
pro evropský výzkum TC AV ČR

Vydalo Technologické centrum AV ČR s podporou projektu
CZERA 3 – Česká republika v Evropském výzkumném prostoru 3
financovaného MŠMT z programu INTER-EXCELLENCE

Grafický návrh obálky MgA. Martin Procházka, Creature.cz
Tisk Art-D – Grafický ateliér Černý s. r. o.





DĚKUJI ZA POZORNOST!

Martin Škarka

NCP European Innovation Council

NCP Mobility

+420 234 006 113; 724 353 608

skarka@tc.cz