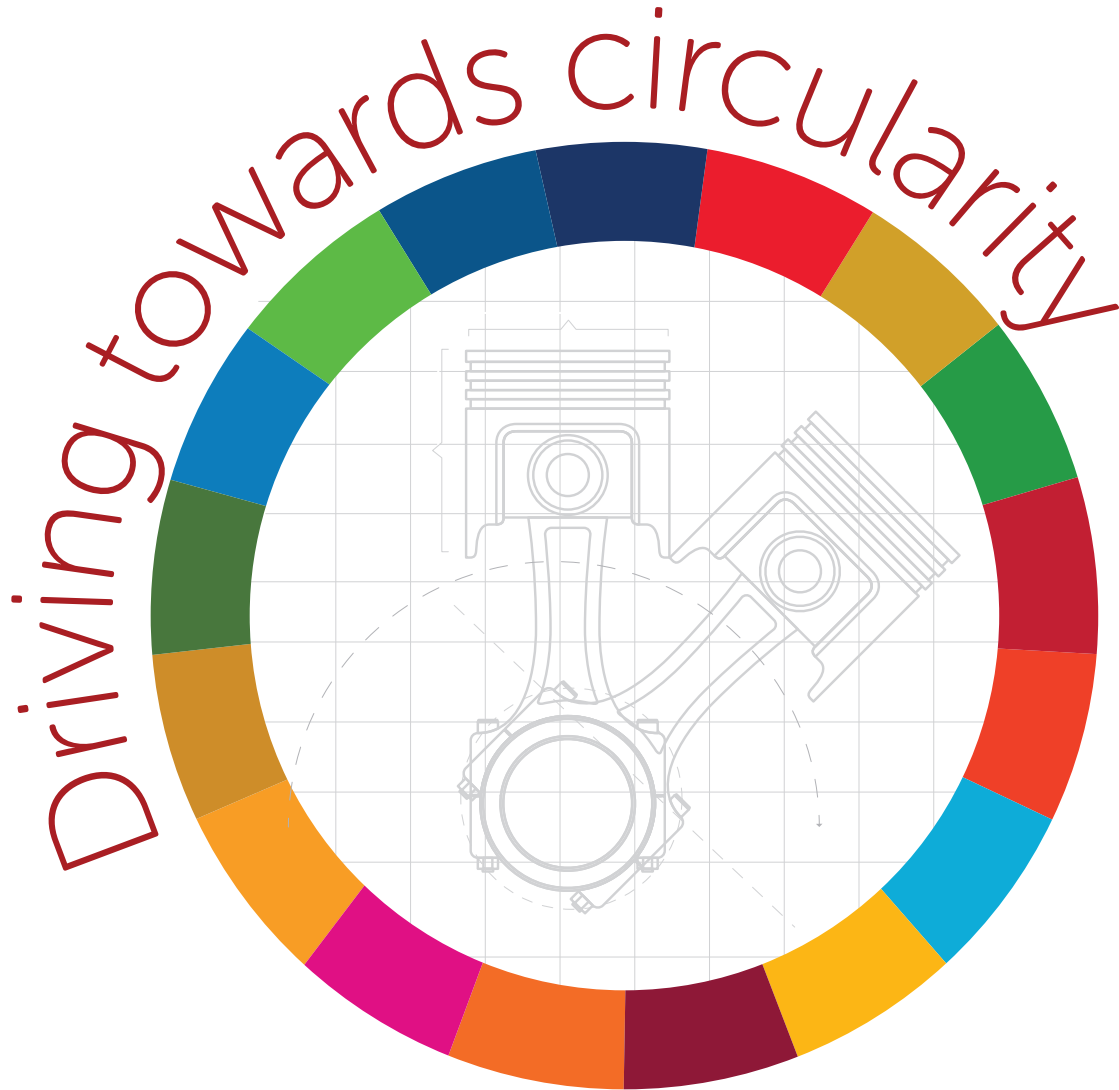




UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



MINISTRY
OF ENVIRONMENT
OF THE SLOVAK REPUBLIC



INTERNATIONAL CONFERENCE
on circular economy
in the automotive industries

Bratislava, 6-7 November 2017



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Thank you.

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Mr. László Sólymos

Minister of Environment, Slovak Republic
6 November 2017 – Sheraton Hotel

I am very pleased to welcome you to this conference. Today we are here to discuss innovations in the automotive industry. These innovations are based on the necessity to transition towards a “circular economy,” an alternative to the unsustainable linear model of economy, which is based on the “take-make-waste” principle.

This event is organized within the framework of the Bratislava Green Economy Process. This process started in the second half of 2016 with the Transition to Green Economy conference organized in September during the Slovak Presidency of the Council of the European Union. After the success of the first year, I am very glad to welcome more than 160 participants from 15 countries. This number is proof that the circular economy, which is discussed so intensely today, is a topic attracting both professional and political attention. It is not necessary to explain that the circular economy is an economy which produces but saves natural resources during production, which consumes but consumes reasonably and is based on informed choices, and, of course, which does not throw away a product but returns it to circulation. The circular economy can become an important guide for production in Slovakia.

According to a joint study of the OECD and the Ministry of Environment of the Slovak Republic – entitled Making Slovakia a more resource efficient economy – the activity of Slovakia must be focused on increasing resource efficiency and achieving the green growth necessary for sustainable economic growth and increased prosperity. Producing more at higher quality while consuming less can reduce production costs, increase the secure supply of resources, ensure long term competitiveness, and mitigate pressure on the environment. The sooner Slovakia introduces such policies, the greater the economic and environmental contribution can be. Current strong economic growth offers a unique opportunity to carry out the necessary investment to facilitate the transition to the circular economy.

Therefore, let me say that already now, opening the event, there are at least two main messages from this event. First, the presence of the representatives of the Ministry of Economy and the Ministry of Transport and Construction is a positive sign that these Ministries do not believe that the circular economy falls exclusively under the competences of the Ministry of Environment. Like other countries, in Slovakia we realize that we can successfully respond to the challenges only by inter-institutional cooperation. The active participation of my colleagues from both Ministries in the discussions about the transition to the circular economy makes me feel very pleased and I believe that the engagement of both Ministries will continue in light of all the upcoming challenges.

The second message is that the automotive industry, having a dominant position in the industrial production in Slovakia and therefore having a great potential to significantly contribute to the transition to the circular economy, recognizes its share of environmental responsibility and is actively looking for solutions to support the transition. This is confirmed by the presence of the representatives of automotive producers as well as representatives from supply chains.

I take away these two messages already, and I believe that there will be more such important messages at the end of our two-day conference.

To introduce the principles of the circular economy to Slovakia, one of the supporting activities of the Ministry of Environment is the creation of a central platform for mutual exchange of information and experience among all relevant entities of society.

In order to introduce the principles of the circular economy in Slovakia, a creation of a central platform for mutual exchange of information and experience among all relevant entities of society is one of the supporting activities of the Ministry of Environment.

Now, I would like to thank the co-organizers, the United Nations Industrial Development Organization (UNIDO), the Ministry of Economy of the Slovak Republic, the Automotive Industry Association, the Embassy of the Netherlands and the Embassy of Norway, as well as all of our partners for the cooperation and support for today's conference.

I hope you will have inspiring discussions during these two days, which will outline new solutions, enrich you with new knowledge and represent an excellent opportunity to meet key partners and start the activities supporting the transition to the circular economy.

Thank you!



Driving towards Circularity

International Conference
on Circular Economy in Automotive Industries
Sheraton Hotel | Bratislava | 6-7/11/2017

Day 1: Monday 6th November 2017

13:00-13:25	<p>Session 1: Welcome Remarks</p> <p>Mr. László Sólymos, Minister of Environment of the Slovak Republic Mr. Ratislav Chovanec, State Secretary for the Ministry of Economy of the Slovak Republic Mr. Viktor Stromček, State Secretary, Ministry of Transport of the Slovak Republic Mr. Stephan Sicars, Director, Environment Department, UNIDO H.E. Mr. Henk Cor van der Kwast, Ambassador of The Netherlands to Slovakia H.E. Ms. Inga Magistad, Ambassador of Norway to Slovakia</p>
13:25-13:40	<ul style="list-style-type: none"> • <i>The importance of a circular economy transition from the EU perspective</i> Mr. Ybele Hoogeveen, Head of Group, Green Economy, European Environmental Agency (EEA)
13:40-13:45	<ul style="list-style-type: none"> • <i>Introduction of the workshop and the programme</i> Ms. Nilgün Tas, Deputy Director, Environment Department, UNIDO; Chief, Industrial Resource Efficiency, UNIDO Mr. Milan Chrenko, Director General, Directorate for Environmental Policy, EU and International Affairs, Slovak Ministry of Environment
13:45-15:15	<p>Session 2: Setting the Stage</p> <ul style="list-style-type: none"> • <i>Redefining competitiveness through the circular economy</i> Mr. Philipp Buddemeier, Director, Accenture Strategy Sustainability • <i>On the road to the circular car</i> Mr. Ben Kubbinga, Built Environment Programme Manager & Lead Partnerships, Circle Economy • <i>The electrification of the automobile is challenging the EU car industry</i> Mr. Thorsten Mehlretter, Head of Automotive, Transport & Logistics, ING Bank • <i>European Automobile Manufacturers' Association vision on circular economy</i> Mr. Jens Warsen, Environmental Policy Director, European Automobile Manufacturers Association (ACEA) • <i>Status of the Slovak automotive industry</i> Mr. Lubomír Šooš, Vice President, Slovak Automotive Industry Association (ZAP) <p>Panel Discussion <i>Moderator:</i> Mr. Freek van Eijk, Managing Director, Acceleratio</p>
15:45-17:45	<p>Session 3: Best Practices in the Value Chain</p> <ul style="list-style-type: none"> • <i>Electrification of the automotive industry: Production and its challenges within circular economy approach</i> Ms. Michaela Ploszeková, Head of Environmental Dpt., Volkswagen Slovakia • <i>State of the art in remanufacturing of car electronics</i> Mr. Thijs Jasink, Chief Operating Officer, Ctronics Group • <i>GreenRetail</i> Mr. František Pelech, Environment & EPR Specialist, ŠKODA AUTO a.s

- *The RASA Car: The hydrogen fueled car*
Mr. Hugo Spowers, Managing Director, Riversimple
- *Bratislava new mobility business model experiences*
Mr. Ján Mazúr, Old Market Hall Alliance, Up City!
- *PSA: Trendsetter in sustainability*
Mr. Peter Švec, Head of External Relations, PSA Groupe Slovakia
- *Recycling of End-of-Life-Vehicles (ELV) under the Dutch Extended Producer Responsibility (EPR)*
Ms. Janet Kes, Manager Corporate and Public Affairs, ARN Recycling

Panel Discussion

Moderator: Ms. Ladeja Godina Košir, Leader, Circular Change

17:45 – 18:15

Session 4: Circular Innovation

- *Power pitches from three circular economy innovative companies*
Mr. Šimon Krošlák, ZEUS (Zero Emission Urban Service), Go4
Mr. Peter Hladiš, Electro-Formula, Slovak University of Technology

Moderator: **Mr. Freek van Eijk**, Managing Director, Acceleratio

Jury: **Mr. Radoslav Mizera**, Vice President, Solved

Conference Organizing Committee

18:15-19:00

Networking

19:00-20:30

Buffet Dinner offered by the Embassy of the Netherlands in Slovakia

With introductions from:

H.E. Mr. Henk Cor van der Kwast, Ambassador of The Netherlands to Slovakia

Mr. Norbert Kurilla, **State Secretary**, Ministry of Environment of the Slovak Republic

Mr. Stephan Sicars, Director, Environment Department, UNIDO

Day 2: Tuesday 7th November 2017

08:45-09:00

Summary of Day 1 & Program of Day 2

Mr. Milan Chrenko, Director General, Directorate for Environmental Policy,
EU and International Affairs, Slovak Ministry of Environment

Ms. Nilgün Tas, Chief, Industrial Resource Efficiency Division, UNIDO

09:00-11:00

Session 5: Material Innovations for Circular Economy

- *Material Innovations for Circular Economy*
Mr. Roman Karlubík, President of the Association of Chemical and Pharmaceutical Industry of the Slovak Republic
- *Circular plastics PET trip from used packaging to automotive industry synthetic fiber*
Mr. Constantin Damov, Co-Founder, Green Group, Romania
- *Sustainability in choosing flame retardant plastics for the automotive sector*
Mr. Sander Kroon, Regulatory Affairs Manager, Flame Retardants and Functional Fluids, ICL Industrial Products Europe
- *Cooperation through the value chain to enable the circular economy: The case of PVC*
Mr. Arjen Sevenster, Senior Manager, Technical & Environmental Affairs, European Council of Vinyl Manufacturers (ECVM-Vinyl Plus)

- *Textiles: A new life for car textiles as acoustic and thermal insulation material*
Mr. Juraj Plesnik, Executive Manager, STERED

Sustainable materials

- *Circularity of steel whilst reinventing itself in automotive*
Mr. Jan Bollen, Manager, Environmental Aspects of Products, ArcelorMittal Europe, Environmental & Climate Change Affairs
- *Norway aluminum innovations lead the way*
Ms. Christine Frogner Brath, Director, Senior Analyst, Corporate Strategy and Analysis, Norsk Hydro

Panel Discussion

Moderator: Mr. Freek van Eijk, Managing Director, Acceleratio

11:25-12:35

Session 6: Financing the Transition to a Circular Automotive Sector

- *Circular economy as an opportunity to redesign the compact between business and society*
Mr. Massimiano Tellini, Chief Innovation Officer, Circular Economy Project
Intesa San Paolo Group
- *Financing the circular economy*
Mr. Armand Ferreira, Director Sustainable Finance, ING Wholesale Banking, Amsterdam
- *European Bank of Reconstruction and Development (EBRD)*
Mr. Sumeet Manchanda, Principal, Energy Efficiency and Climate Change,
EBRD
- *European Investment Bank (EIB)*
Mr. Darragh Mac Neill, Senior Industry Advisor, EIB

Panel Discussion

Moderator: Mr. Freek van Eijk, Managing Director, Acceleratio

13:45-14:40

Session 7: Facilitating the Transition to a Circular Automotive Sector

- *The Directive on End-of-Life-Vehicles (ELV) as an instrument to drive circular economy in the automotive industry*
Ms. Bettina Lorz, Senior Expert, Waste Management & Secondary Materials,
Directorate General (DG) Environment, European Commission
- *Findings from electric vehicle component recycling projects*
Mr. Markus Becker, Environment, Traffic and Transport, Electric Mobility
Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety,
Government of Germany
- *Which Slovak governmental actions would help the Slovak automotive industry*
Mr. Pavol Prepiak, Vice President, Slovak Automotive Industry Association (ZAP)
Mr. František Pelech, Environment & EPR Specialist, ŠKODA AUTO a.s.

Panel Discussion

Moderator: Ms. Nilgün Tas, Deputy Director Environment Department, Chief – Industrial Resource Efficiency, UNIDO

14:40-16:10	Session 8: Government Initiatives to Maintain Circular Economy
	<ul style="list-style-type: none"> • <i>Netherlands Circular Hotspot</i> Mr. Herman Bavinck, Programme Director, Netherlands Circular Hotspot Programme, Government of the Netherlands • <i>Slovenia's stakeholder involvement</i> Mr. Tadej Slapnik, State Secretary, Office of the Prime Minister, Government of Slovenia • <i>Slovakia's ambition to become a circular economy reference point in Eastern Europe</i> Mr. Norbert Kurilla, State Secretary, Ministry of Environment of the Slovak Republic • <i>How Finland innovates towards circularity in mobility</i> Mr. Heikki Sorasahi, Specialist CE mobility & logistics, The Finnish Innovation Fund (SITRA) • <i>Czech experiences on the promotion of the circular economy</i> Mr. Vladislav Smrž, Deputy Minister for Section of Environmental Policy and International Relations, Ministry of Environment, Government of the Czech Republic <p>Panel Discussion <i>Moderator: Mr. Lawrie McLaren</i>, Managing Director, Burson-Marsteller</p>
16:30-17:25	Session 9: International Support for Driving Towards Circularity
	<ul style="list-style-type: none"> • <i>OECD work on the circular economy</i> Mr. Peter Börkey, Principal Administrator, OECD Environment Directorate • <i>Accelerating the transition to a circular economy</i> Mr. Attila Turos, Lead, Future of Production, WEF • <i>Circular economy – International support for driving towards circularity</i> Mr. Stephan Sicars, Director Environment Department, UNIDO <p>Panel Discussion <i>Moderator: Ms. Ladeja Godina Košir</i>, Leader of Circular Change</p>
17:25 -17:45	Inspirational speech "Transport – Future – Alternative" Mr. Štefan Klein , Slovak inventor
17:45-18:00	Close of the workshop and outlook for the future Mr. Norbert Kurilla , State Secretary, Ministry of Environment of the Slovak Republic Mr. Stephan Sicars , Director, Environment Department, UNIDO

This was a **Zero Waste Event**.
All efforts have been made to **minimize waste**
and to **utilize resources responsibly**.

(pro bono consultation by INCIEN Slovakia)

The Circle of Influence

Throughout the conference, participants were invited **to ask questions, voice opinions and vote on key issues**. The results of those discussions can be found at the back of this report.

RALLY 'ROUND

How does the automotive industry already foster the circular economy, and what more can be done?

This was the question posed by this international conference, considering circular initiatives in the automotive industry in Slovakia, Europe, and around the world. Held in Bratislava, the event was organized by the Ministry of Environment and the Ministry of Economy of the Slovak Republic in cooperation with the United Nations Development Organization (UNIDO), and with support from the embassies of the Netherlands and Norway in Slovakia. As the world's largest producer of cars per capita, Slovakia was a fitting place to hold these discussions.

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_23245

