



Finanțat de
Uniunea Europeană
NextGenerationEU



Planul Național
de Redresare și Reziliență

PNRR: Fonduri pentru România modernă și reformată!

Continental 
The Future in Motion



IPCEI – ASSET – IxC (Automotive Systems Smart Energy Efficient Transducer Innovation across Value Chain)

Project Overview October 2024

Presenter: Dr. Petru Demian

<https://mfe.gov.ro/pnrr/>

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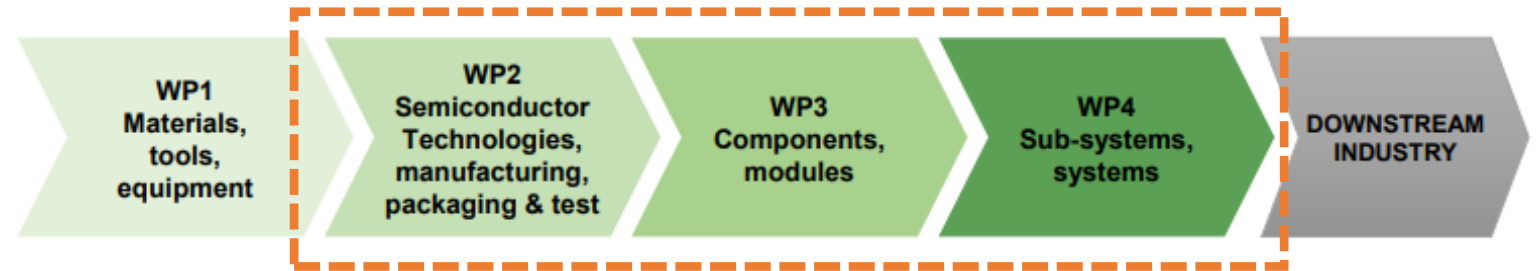
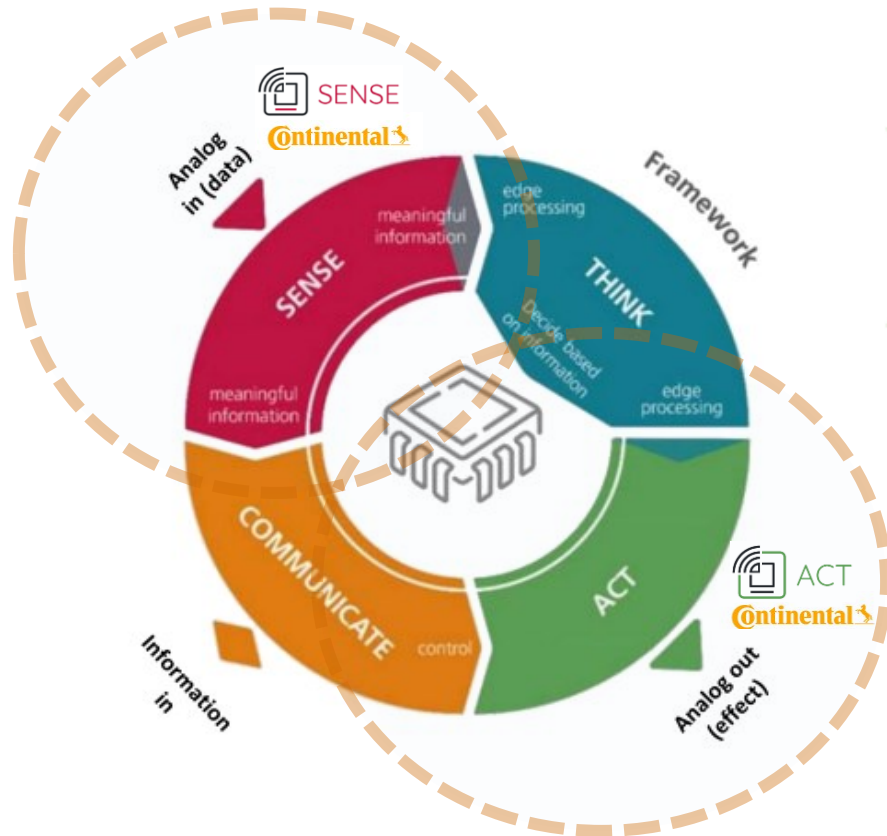
PNRR. Finanțat de Uniunea Europeană - Următoarea Generație UE

Internal

Continental 








IPCEI – ASSET – IxC (Traductoare inteligente eficiente din punct de vedere energetic pentru sisteme auto – inovație de-a lungul lanțului valoric)

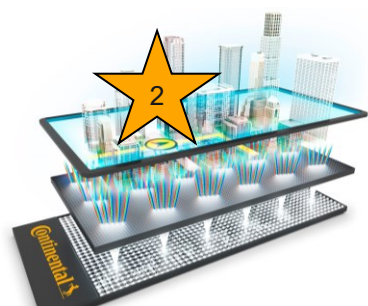
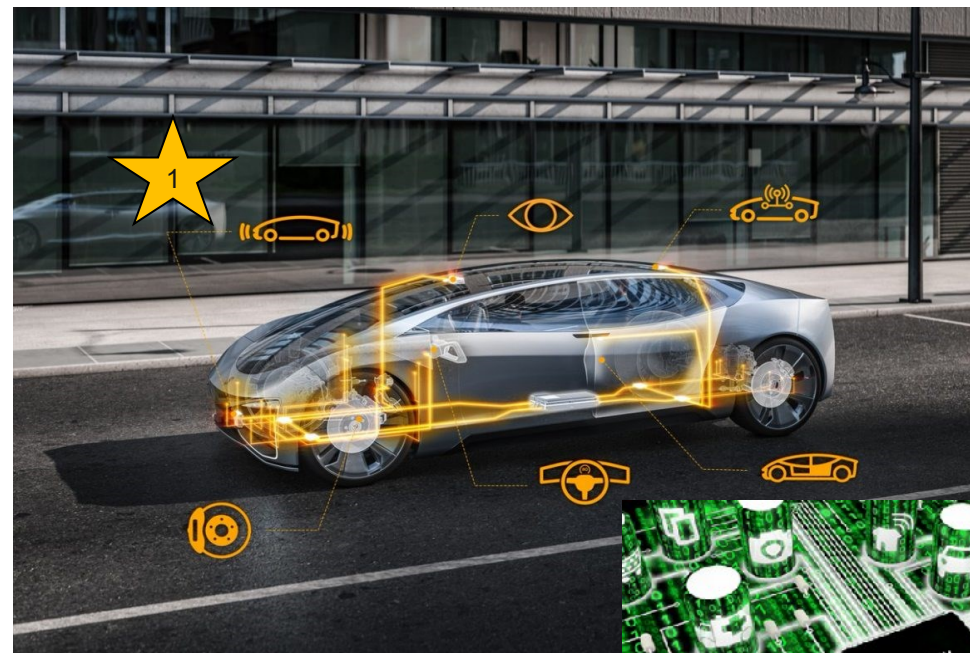


Project target: Improve, expand, and establish technological capabilities in the field of electronics for the mobility of the future and to apply in the new products.



IPCEI Continental Direct participant work packages

-  Project 1: Microelectronics – introduction of innovative concept in automotive microelectronics
-  Project 2: Innovative display solutions introduction & release for automotive
-  Project 3: Multi-display/multi-function displays – platform and introduction in production
-  Project 4: Innovative Head-Up-Display
-  Project 5: New generation electronic brakes and stability systems





Project Activities WP1 – Expected Results for 2028: Microelectronics

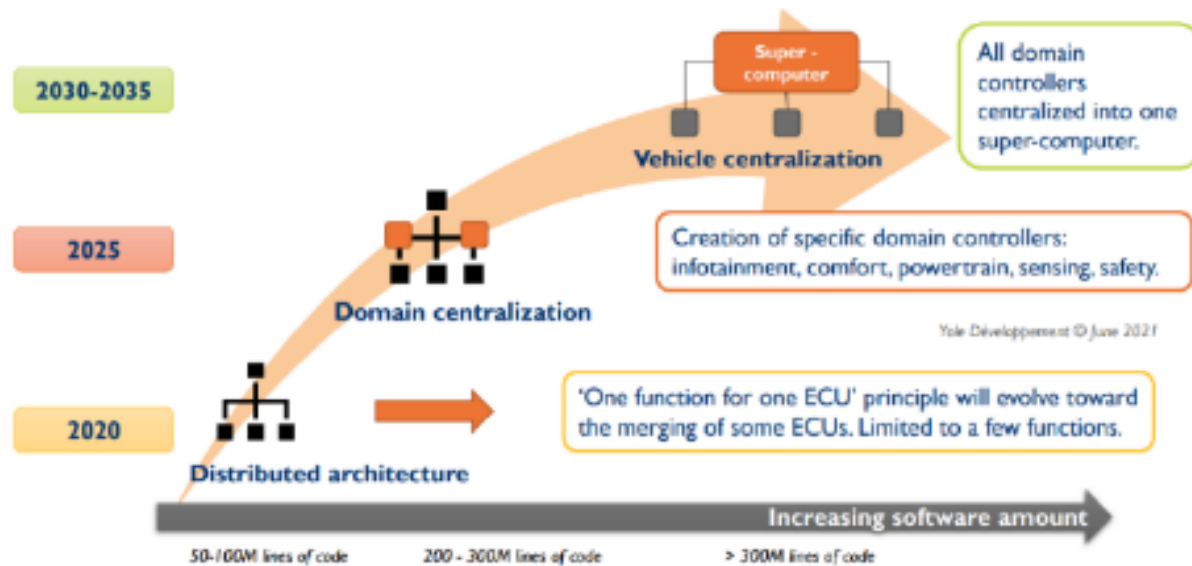
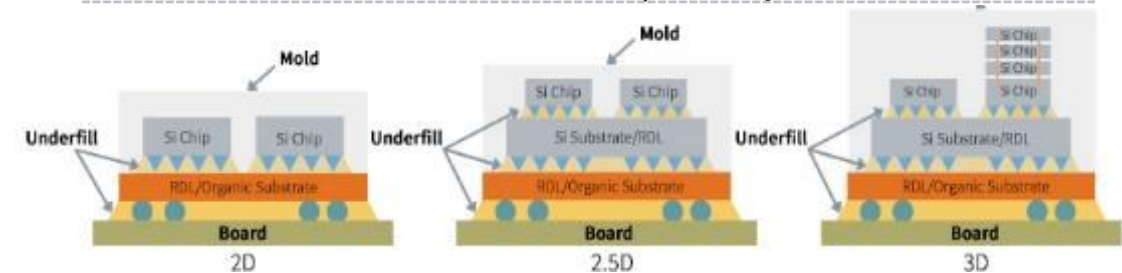
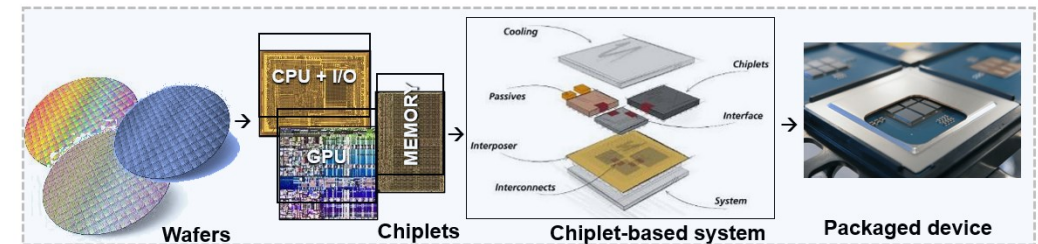
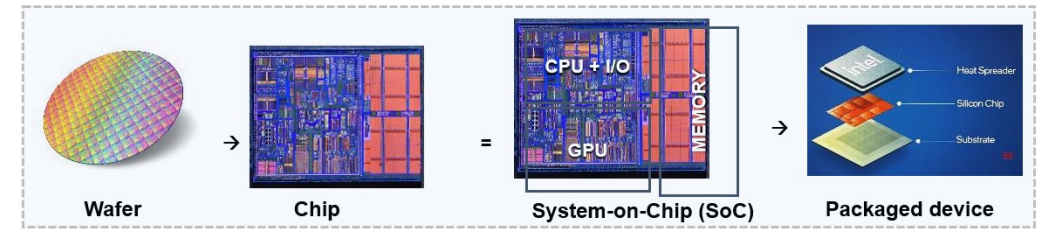


Fig. Car architecture transformations



Challenges:

1. The Big transformation in the vehicle architecture will have a high impact on the automotive HW and SW development
2. Very strong tendency to integrate in a System of Packages, different circuits produced in different technologies (heterogeneous integration)
3. Need for higher performance with lower energy consumption!

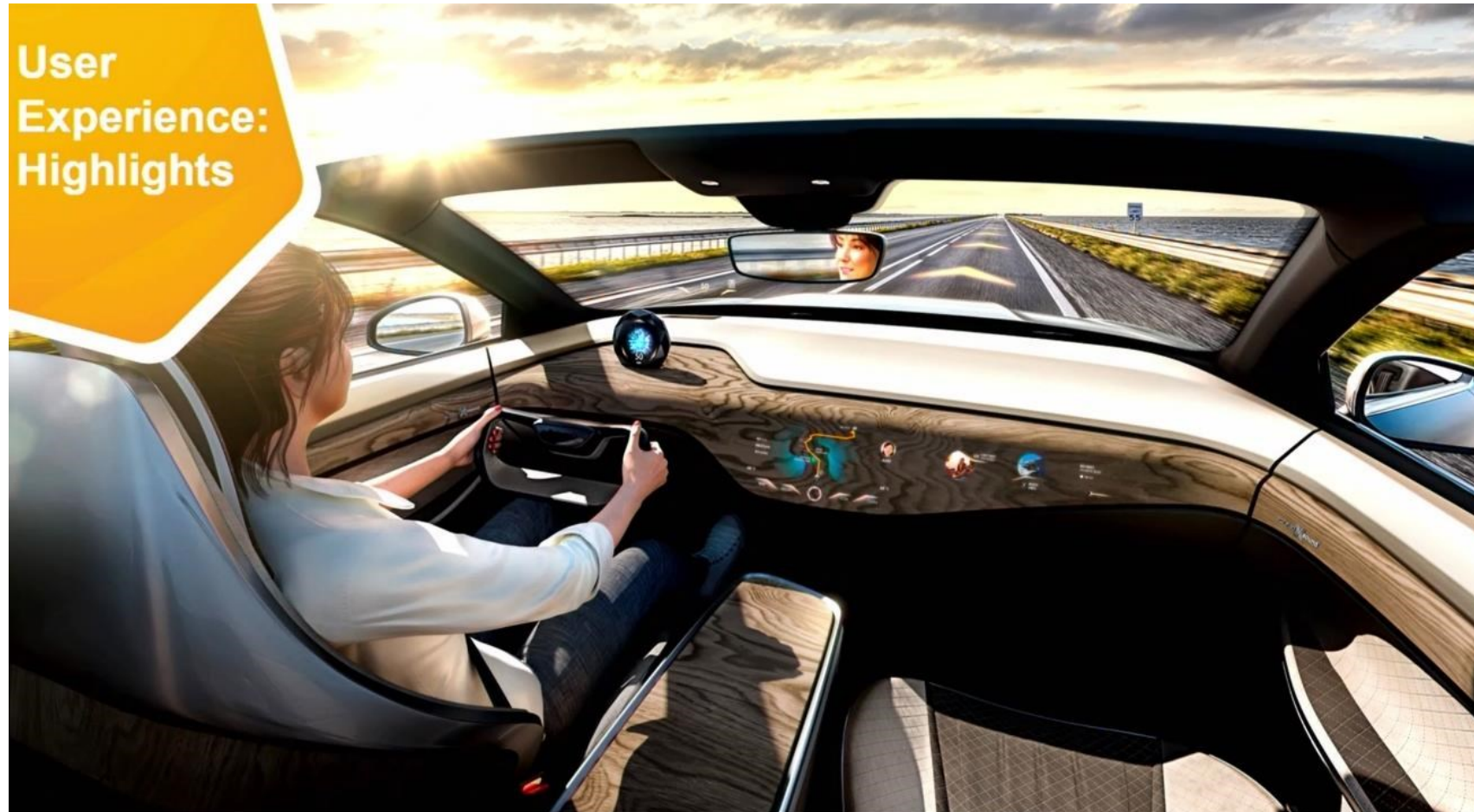


Project Activities – WP 1,2,3,4 – Expected Results for 2028: Head-up Display, Multi-Display, P2P, Intelligent Sensorics, 3D Display





Project Activities – WP 1,2,3,4 – Expected Results for 2028: Head-up Display, Multi-Display, P2P, Intelligent Sensorics, 3D Display



User
Experience:
Highlights



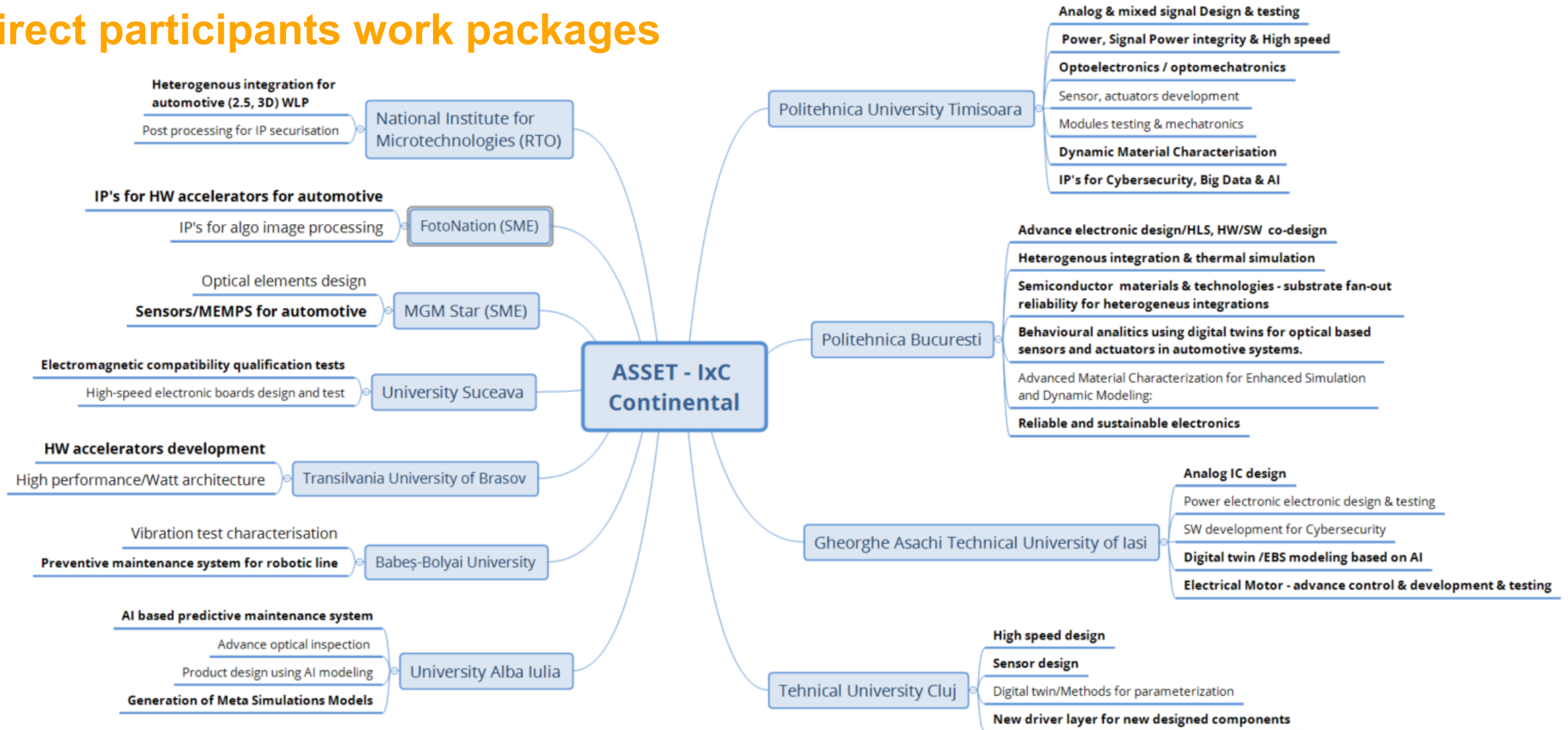
Project Activities – WP 1, 5 – Expected Results for 2028: Brake By Wire





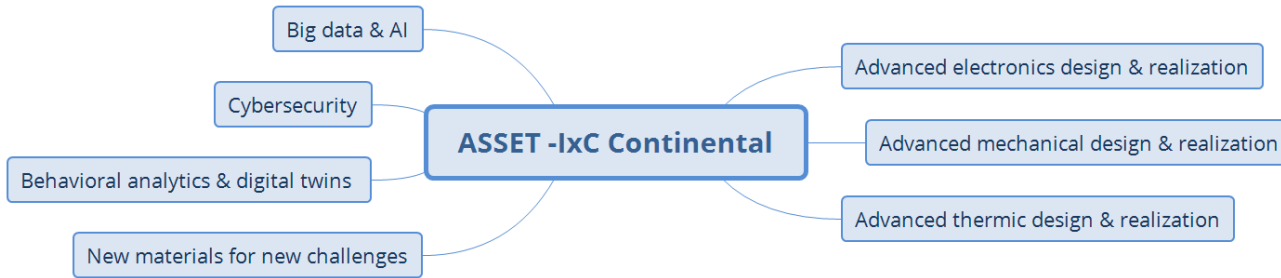
IPCEI Continental

Indirect participants work packages





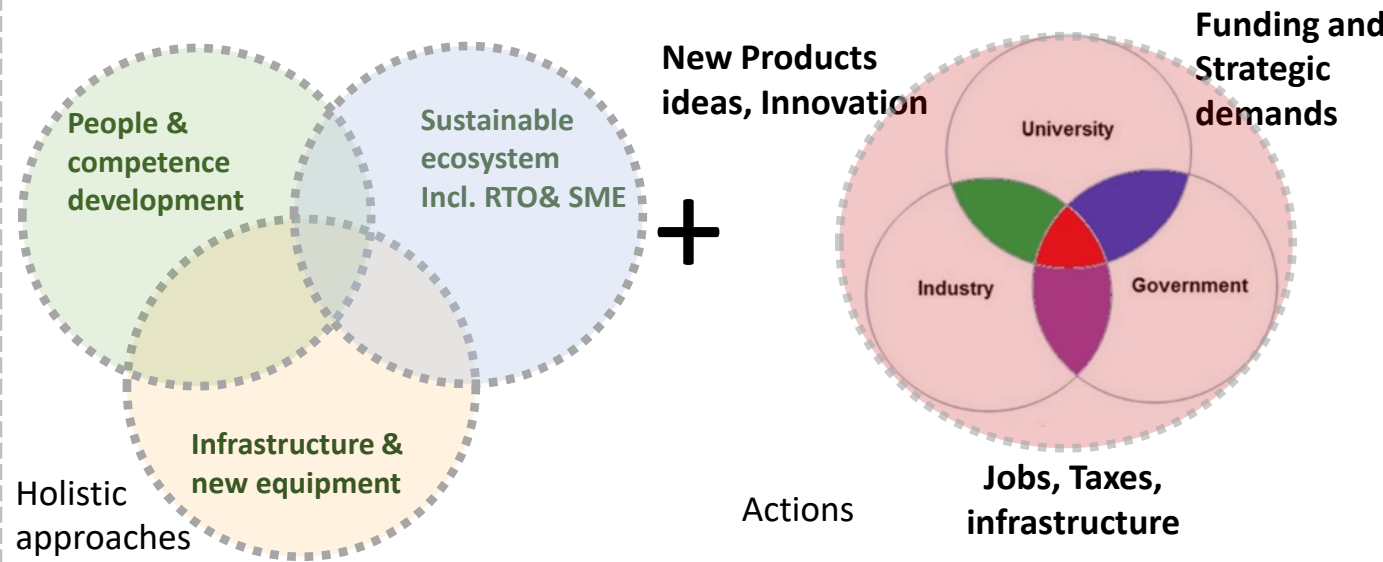
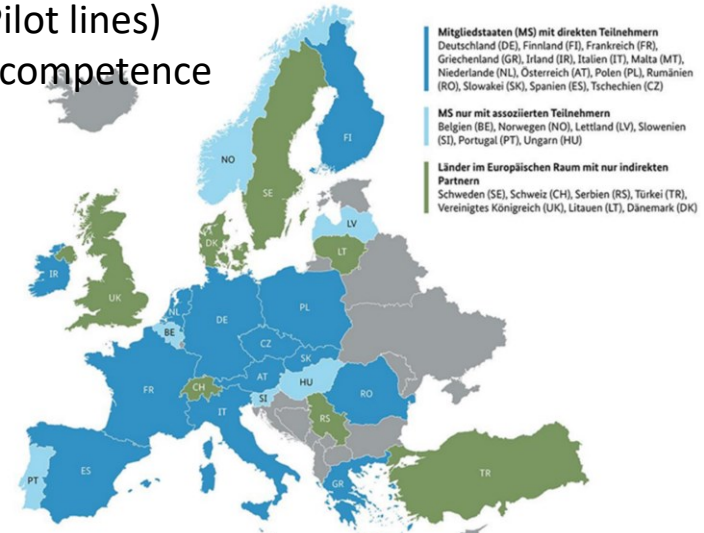
IPCEI Continental Ecosystem impact



Main technical ecosystem rebuild areas

Expected results:

- Double the microelectronic specialists
- Extend connections & collaborations Universities & RTO&SME & Large companies
- Involvement of Romania in EU in strategic actions:
 - IPCEI
 - Chip-JU (Pilot lines)
 - Center of competence
 - Skills





Continental's Contribution to Academic Activities

Important Extension of Advanced Universities Programs

1. Pupil	2. Student	3. Graduate	4. PhD Student	5. Teacher	6. PhD Tutor
<ul style="list-style-type: none"> Conti Showoff Company visits Sponsorships Presentations in high schools Dual learning system 	<ul style="list-style-type: none"> Conti Showoff Visit to the company's laboratories Sponsorships Practice in the company Courses held by the company's experts in faculties Student employment, attractive tasks Financial support for educational programs Dual learning system 	<ul style="list-style-type: none"> Conti Showoff Research projects with the University PhD Programs Financial support for educational programs Technical development programs Dual learning system 	<ul style="list-style-type: none"> Conti Showoff Financial support for educational programs Development of technical competencies Industrial PhD ★ Research projects/Grant Sponsorships 	<ul style="list-style-type: none"> Conti Showoff Financial support for educational programs Development of technical skills Industrial PhD Research projects/Grant Sponsorships Support curriculum development and curricula Complex technical consultancy ★ 	<ul style="list-style-type: none"> Conti Showoff Financial support for educational programs Industrial PhD Research projects/Grant Advanced innovation research programs ★ Continuous improvement of educational programs Complex technical consultancy
<p>Highlights:</p> <ol style="list-style-type: none"> Continental has fully implemented activities 1 – 3 (student → graduate student); Activities 4 – 5 are in extension (industrial PhD, joint research projects and industrial consultants). IPCEI allow extension if the activities especially in the advance areas. 					



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Software and Central Technologies