

## EUROPEAN PROCESSOR INITIATIVE



Committed



HPC



eHPC (Automotive)



AI & Big-Data

Future



Cloud & Servers



Space



Industry 4.x



[www.european-processor-initiative.eu](http://www.european-processor-initiative.eu)

**BMW  
GROUP**



Rolls-Royce  
Motor Cars Limited

**Atos**



**Barcelona  
Supercomputing  
Center**  
Centro Nacional de Supercomputación



**FORTH**  
INSTITUTE OF COMPUTER SCIENCE



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA



CHALMERS



UNIVERSITY OF ZAGREB  
FACULTY OF  
ELECTRICAL  
ENGINEERING  
AND COMPUTING



UNIVERSITÀ DI PISA



**ETH zürich**



European  
Processor  
Initiative

FRAMEWORK PARTNERSHIP AGREEMENT IN EUROPEAN  
LOW-POWER MICROPROCESSOR TECHNOLOGIES



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 826647





## MISSION

- European independence in High Performance Computing Processor Technologies
- EU Exascale machine based on EU processor by 2023
- Based on solid, long-term economic model, go beyond the HPC market
- Address the needs of European Industry (Car manufacturing market)
- End-to-end security



## VISION

- High Performance Computing needs for Exascale machines beyond 2022
- Connected mobility and Autonomous Driving computing needs beyond 2023
- Low power CPU needs for Servers and Cloud
- Other markets under exploration (Server, Cloud)

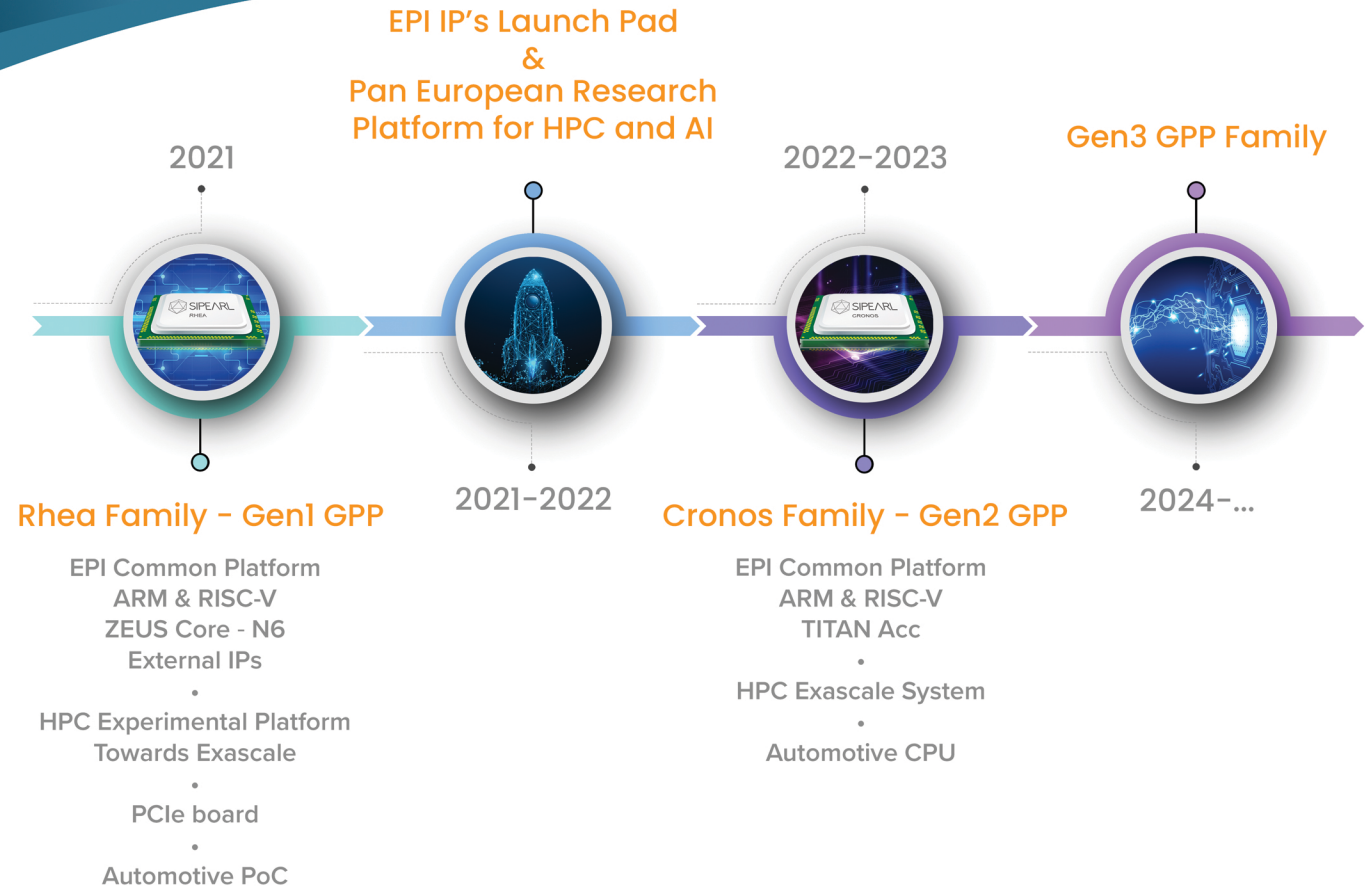


## IMPACT

- Strengthening the competitiveness and leadership of European industry and science
- European microprocessor technology with drastically better performance/power ratios
- Tackling important segments of broader and/or emerging HPC and Big-Data markets



## ROADMAP



## PROJECT PILLARS

- Common platform and global architecture stream
- HPC general purpose processor stream
- Accelerator stream
- Automotive platform stream