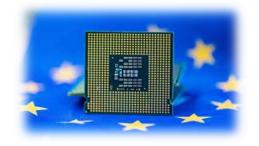


Under the Chips for Europe Initiative (Pillar 1 of the Chips Act)



Ambition: foster the development of the semiconductor design ecosystem in EU, reinforcing capacity to innovate and reduce time-to-market for IC design



Development of the semiconductor design ecosystem

EUROPRACTICE – a bottom-up approach

- Established in 1989 as EUROCHIP to stimulate microelectronics in academia and ensure the supply of a trained workforce to industry
- More than 600 academic institutes use the microelectronics design tools and Multi-Project Wafer (MPW) runs for their teaching, research and innovation activities
- EUROPRACTICE also serves as a breeding ground for emerging technologies (e.g. from pilot lines)

unec



EUROPRACTICE – Way of Working





EUROPRACTICE and Industry



- EUROPRACTICE is mainly focused on Academia, but......
 - Spin-outs are stimulated and supported through
 - Proof-of-Concept licenses
 - Subsequent commercialization agreements
 - Other companies can access
 EUROPRACTICE MPW runs
 - Routes to volume exist for most technologies.





Needs for startups and SMEs

- Easy access to design tools, IP and technologies (ideally as a "One-Stop-Shop")
- Easy install and maintenance of design flows (incl. multivendor flows)
- Availability of people with the right skills
- Easy access to capital

Lower the risk, lower time-to-market and maximize their success rate





Design platform - objectives

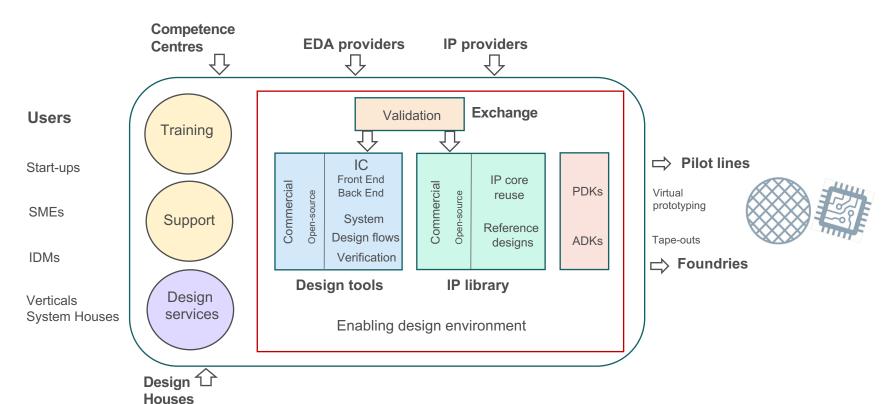


- Lower the barriers for IC design (in particular for advanced technologies)
- Foster collaboration among EU stakeholders
- Support the development of IC design skills by offering training and support services through a network of competence centers
- Integrate access to pilot lines and fabs for early prototyping
- Leverage and build upon existing platforms or initiatives.

Develop a cloud-based design infrastructure where design tools, kits and flows, IP libraries and support services are easily accessible

imec

Design platform



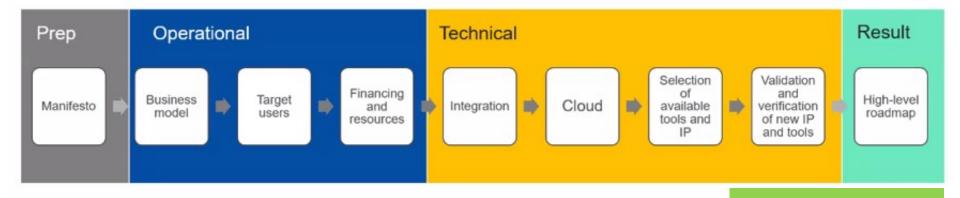


8

Design platform – important considerations for implementation

- Complexity interoperability of different products from multiple vendors into single workflows combined with the management of licenses.
- Cost lower the upfront investment for startups by pay-per-use license models and/or collective procurement of licenses and cloud resources.
- Security hosting of sensitive user data and IP alongside foundry PDKs amongst other resources.
- Efficiency monitor, optimize and upkeep the platform resources
- Accessibility ensuring equal access across all Member States. The platform should be accessible to novel and experienced users alike, with support services adapted accordingly.
- Neutrality platform must be vendor neutral and open.

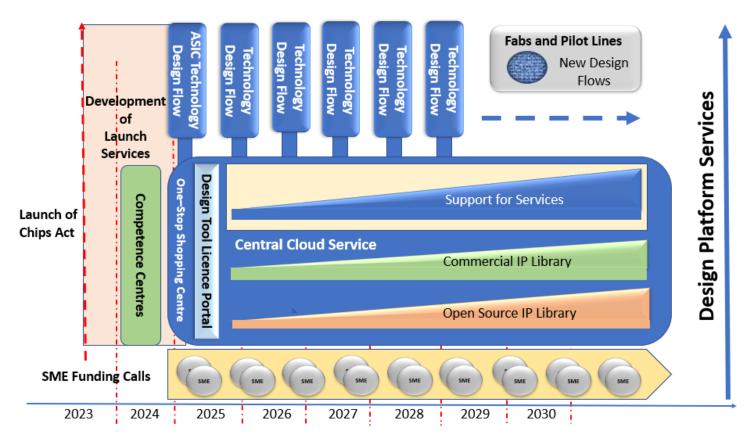
Design Platform Working Group - Timeline



Training & link with competence centers



Design Platform Roadmap - simplified







Acknowledgements

Members of the Working Group

- Ansys Babis Bakolias
- Arm Neil Paris, Eric Lalardie
- Cadence Anton Klotz
- Codasip Karel Masarik, Jamie Broome
- Dassault Systemes Manuel Rei, Sophie Batas
- Dolphin Philippe Berger
- Fraunhofer Christoph Kutter, Andreas Brüning, Thorsten Edelhäußer
- Imec / EUROPRACTICE Maarten Burssens, Romano Hoofman
- Infineon Holger Schmidt
- Racyics Holger Eisenreich, Jens-Uwe Schlüßler
- Siemens Jean-Marc Talbot, Thomas Heuring
- **SiPearl** Philippe Notton, Ying-Chih Yang, Vincent Casillo
- ST Micro Roberto Zafalon
- Synopsys Steve McDonald, Alec Vogt
- EC Marco Ceccarelli, Matthew Xuereb
- Haydn Thompson (rapporteur)





mec

embracing a better life