



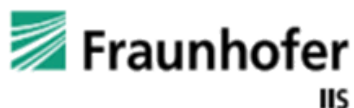
NEXTS



Next Europractice eXtended Technologies and Services



UK Research and Innovation



H2020-ICT-07-2018

Electronic Smart Systems (ESS)



European Commission

Horizon 2020
European Union funding
for Research & Innovation

□ National Initiatives

- MOSIS, USA (1981)
- CMP, France (1981)
- Norchip, Scandinavia (1982)
- EIS, Germany (1983)
- ECAD, UK
- INVOMEK/IMEC, Belgium (1984)



□ EUROCHIP "VLSI Design Action" (1989 – 1995)

- First European Program for CAD, Training, & Prototyping
- Consortium : CMP, CNM, DTU, GMD, IMEC, RAL/STFC.

□ ChipShop (1992 – 1994)

- IC prototyping production service for SMEs.
- Consortium : SCME, FhG-IIS, LETI, CMP, CNR-PF, IAM, GAME, INESC, INTRACOM, ElektronikCentralen, CNM, Nordic VLSI, ERA, ULVC.



□ EUROPRACTICE (1995 – 2018)

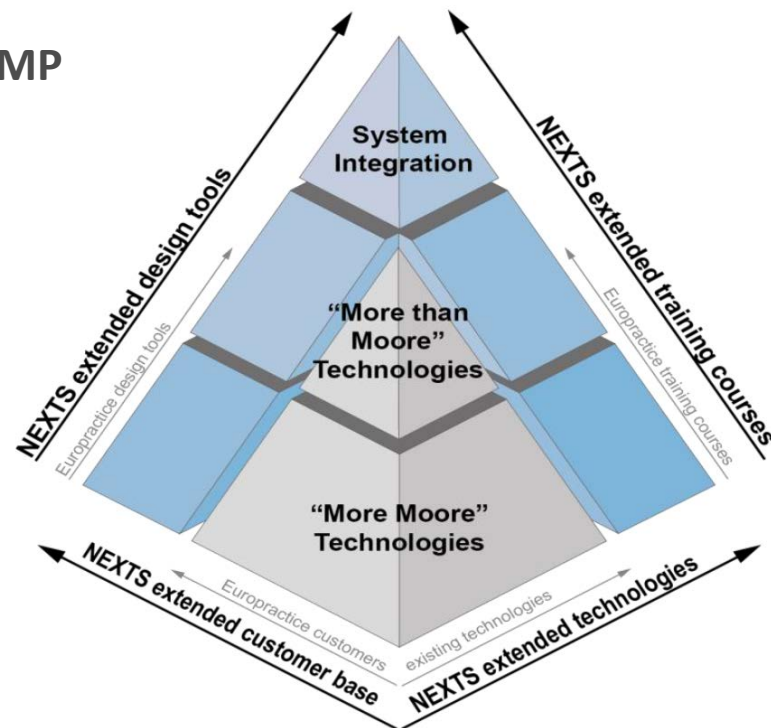
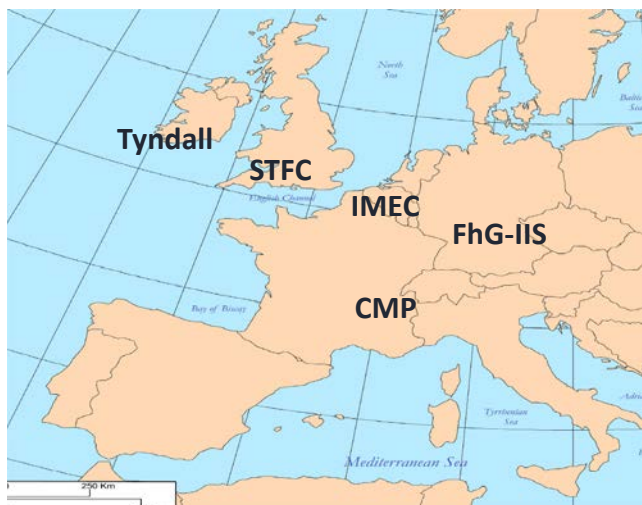
- Launched by the EC as a follow-up to Eurochip & ChipShop
- Provide CAD, Training, MPW, and low volume production.
- Consortium : IMEC, STFC, FhG-IIS

□ NEXTS - EURO PRACTICE (Starts 2019)

- Launched by the EC as a follow-up and extension to Europractice.
- Provide CAD, Training, MPW, low volume production, System Integration, SMEs.
- Consortium: IMEC, STFC, FhG-IIS, CMP, Tyndall

□ Main Infrastructure :

- Project Management : IMEC
- CAD & Training : STFC
- MPW service centers: IMEC, FhG-IIS, CMP
- System Integration : Tyndall
- Business Development : All





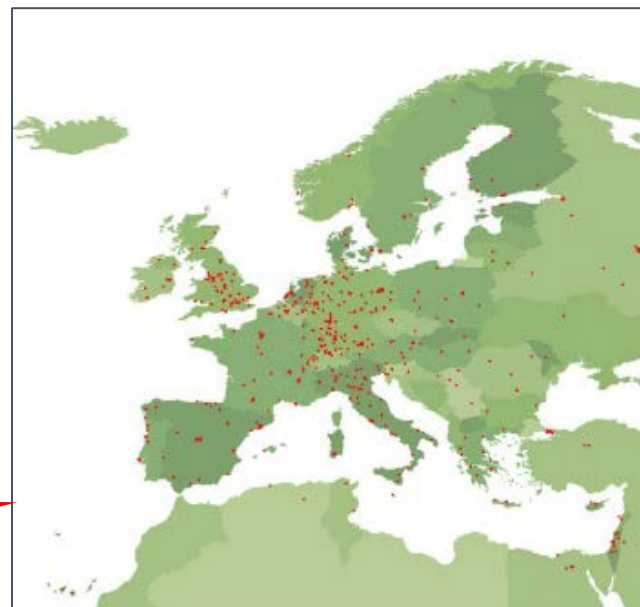
NEXTS/Europractice Membership

European Universities and Research Institutes can choose from 4 levels of membership:

- Full-IC annual membership: **1'100€** (600 € for CAD, 500 € for MPW)
Full access CAD tools, Design Kits and Libraries, MPW fabrication with discounted price.
- MPW-only annual membership: **600 €**
Full access to MPW fabrication with discounted price.
- Software-only annual membership: **600 €**
Full access to CAD tools only.
- FPGA-only annual membership: **200 €**
Access to FPGA tools only.

NEW

Full-IC or MPW-only EP Membership makes eligible to discounts and discounted prices at CMP.



640 institutes in ~42 countries of Europe, Middle East, Africa and Russia.

The annual Membership Fee is collected by STFC on behalf of the EURO PRACTICE partners :
<http://www.europractice.stfc.ac.uk>



Membership ID Use at CMP

■ EP Membership ID :

- A00000 For Academic
- R00000 For Research

5 digits

- **CMP ID number : XX000Y**
 - Country code
 - 3 digits
 - U : University
 - R : Research
 - I : Industry

EP Membership ID allows :

- Access to design-kits and support will continue as usual, free of charge.
- Access to trainings : CMP organize trainings, now part of NEXTS/Europractice
 - ✓ Discounted price for EP members
 - ✓ Foundry NDA in place to attend.
- Access to MPW runs :
 - ✓ Discounted price available for EP members (see CMP Price-List 2019 on-line)
 - ✓ CMP Order Form with EP membership ID.



Example of New MPW Pricing at CMP



Discounted Price

<i>ams</i> ¹	STANDARD €/mm ²	DISCOUNTED price €/mm ²
ams 0.35µm CMOS C35B4C3 4M/2P/HR/5V IO	640 ²	580 ²
ams 0.35µm CMOS C35OPTO 4M/2P/5V IO	800 ³	700 ³
ams 0.35µm HV CMOS H35B4D3 120V 4M	880 ³	800 ³
ams 0.35µm SiGe-BiCMOS S35D4M5/CMOS-RF C35B4M3 4M/4P-MIM	880 ³	800 ³

Notes:

- ¹ Area = X*Y including seal-ring.
- ² Price = area (mm²) * price/mm² with min. fabrication cost equivalent to 4 mm²
- ³ Price = area (mm²) * price/mm² with min. fabrication cost equivalent to 7 mm²



Discount on Price

<i>STMicroelectronics</i> ¹	STANDARD €/mm ²	DISCOUNT €/project
ST 28nm CMOS28FDSOI	12000 ^{2,7} 24000+[(Area-2) x 9000] ⁵	1500
ST 55nm BiCMOS055	7500 ² 15000+[(Area-2) x 6000] ⁵	1200
ST 65nm CMOS065	6000 ³ 30000+[(Area-5) x 4900] ⁶	1200
ST 130nm BiCMOS9MW	2900 ³ 14500+[(Area-5) x 2400] ⁶	1000
ST 130nm H9SOI-FEM	2200 ³ 11000+[(Area-5) x 1500] ⁶	700
ST 130nm HCMOS9GP	2500 ³ 12500+[(Area-5) x 2200] ⁶	700
ST 130nm HCMOS9A	2500 ³ 12500+[(Area-5) x 2200] ⁶	700
ST 0.16µm BCD8sP	2500 ⁴ 12500+[(Area-5) x 2200] ⁶	1000
ST 0.16µm BCD8s-SOI	2500 ⁴ 12500+[(Area-5) x 2200] ⁶	1000
<i>STMicroelectronics Wafer Level Bumping</i>	STANDARD €/ project	DISCOUNT €/project
on 300mm ST 55nm BiCMOS055 process	25000	1500
on 300mm ST 65nm CMOS065	23000	1500
on 300mm ST 28nm CMOS28FDSOI	33000	1500

Notes:

- ¹ Area = X*Y including seal-ring.
- ² Price for Area ≤ 2mm² with minimum charge of 1.25mm² including seal-ring.
- ³ Price for Area ≤ 5mm² with minimum charge of 1.25mm² including seal-ring.
- ⁴ Price for Area ≤ 5mm² with minimum charge of 3.43mm² including seal-ring.
- ⁵ Price for 2mm² ≤ Area ≤ 10mm² including seal-ring. Contact CMP when Area is larger.
- ⁶ Price for 5mm² ≤ Area ≤ 15mm² including seal-ring. Contact CMP when Area is larger.
- ⁷ Special price for CNRS Institutions: 9000€/mm²



Area includes Seal-Ring