

# Circuits **M**ulti-**P**rojets®

MPW Services Center for  
ICs, Photonics, & MEMS

Prototyping & Low Volume Production

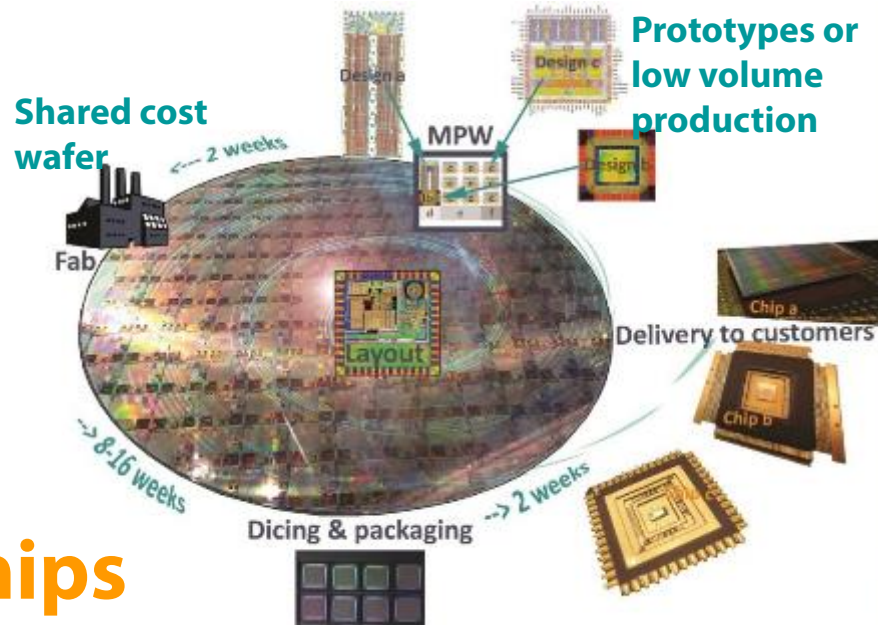
<https://mycmp.fr>

Grenoble - France

# Access to IPs for MPW services

CMP provides access to MPW services makes available and affordable **world class advanced CMOS /MEMS technologies** as well as **mature and/or niche market technologies** to cover a wide range of applications.

Access to **IPs remains an issue** in many technologies to lower the main barriers: **time, cost, expertise**

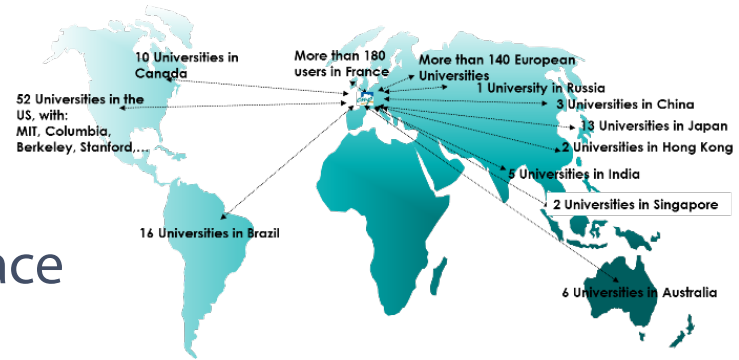
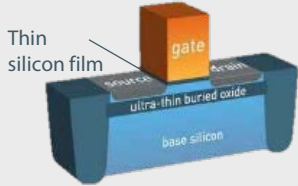


**From layout to chips**



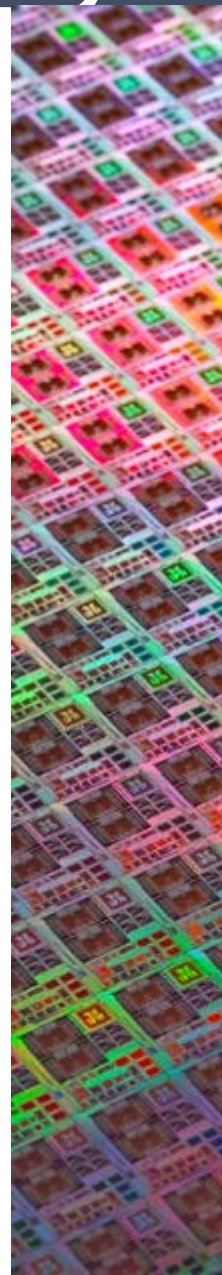
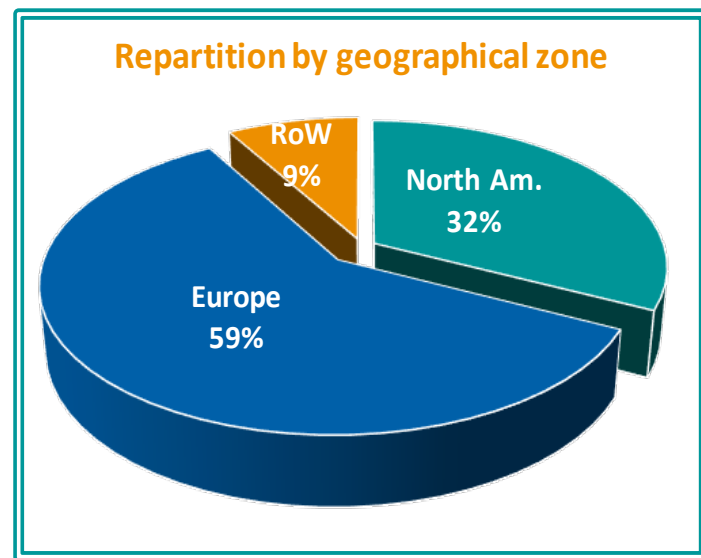
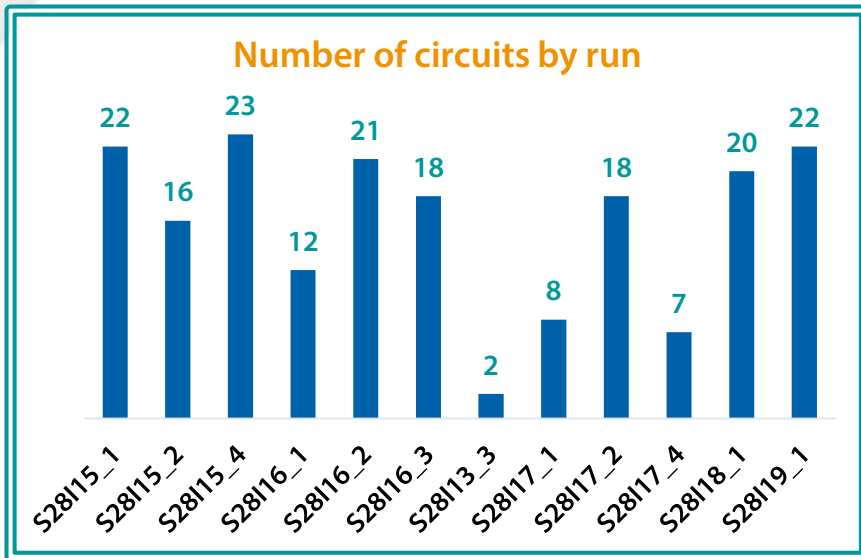
# A case study for the MPW community

## STMicroelectronics 28FD-SOI MPW service success story:



- A worldwide community of users with over **200 active NDA/CLA** in place

- Since 2015 **over 180 tape-out** with practical validations!



# Is there a place for IP sharing ?

- **Is there an opportunity to have access to IP blocks ?**

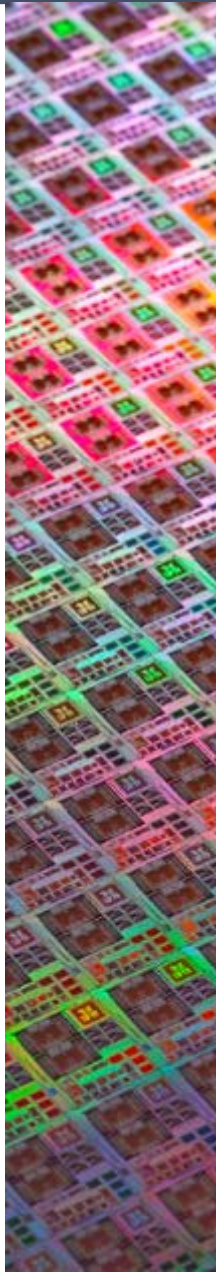
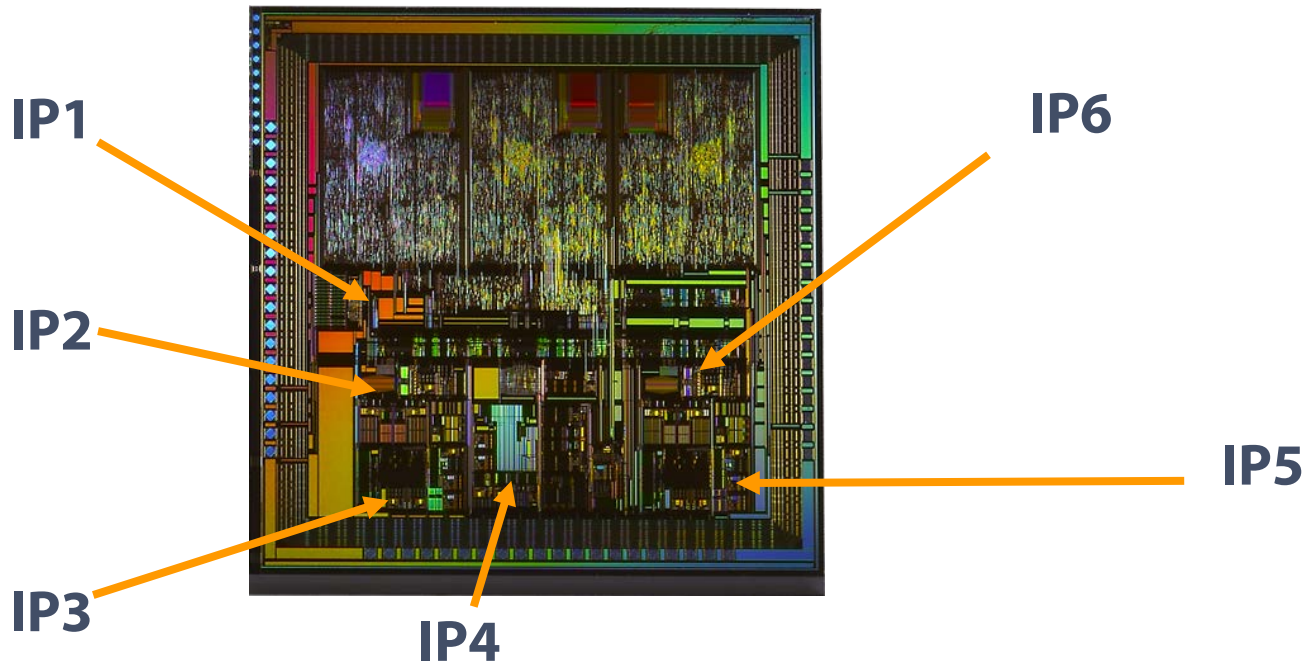
Assumptions:

5 to 10 IPs per prototype

5 to 10% of MPW service users willing to share their IPs

Already about 150 prototypes delivered and tested !

**Between 40 and 150 IP blocks could be shared !**



# Is there a place for IP sharing ?

## - Is there a business model for sharing IPs ?

Assumptions:

IPs are not fully reliable

IPs need to be a bit “packaged” (description, characteristics)

No royalty business can be expected / Limited risk !

## - Who will prepare descriptions & characteristics ?

## - Who will organize a direct non profitable business ?

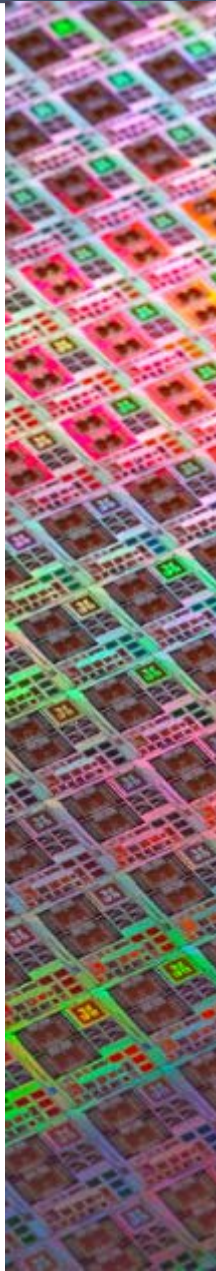
- MPW users
- MPW service organizers

## - Why ?

Because it is in their interest ! More with less

Users access and participate to a community per technology

MPW service organizers get more circuits and are ready to handle the IP sharing.





# Is there a place for IP sharing ?

## - How?

### **Producing and offering a simple frame:**

A user network secured by active NDA/CLA per technology

A web application with all data available and the possibility to put a request, even to chat with the IP block provider.

### **With simple terms and conditions:**

MPW services organize and own DK legal issues & operate data transfer with users' community.

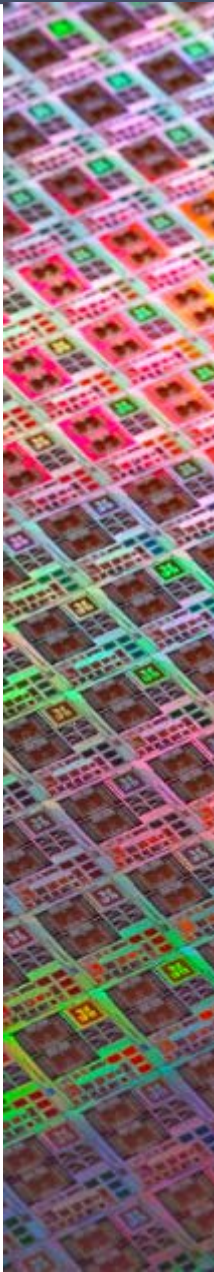
A simple IP block license agreement can be set online.

### **And offers "nature" rewards to participants such as:**

Commitment to reference past work related to shared IP block

User community building and visibility.

**Help us making this IP block sharing service  
a sustainable business**



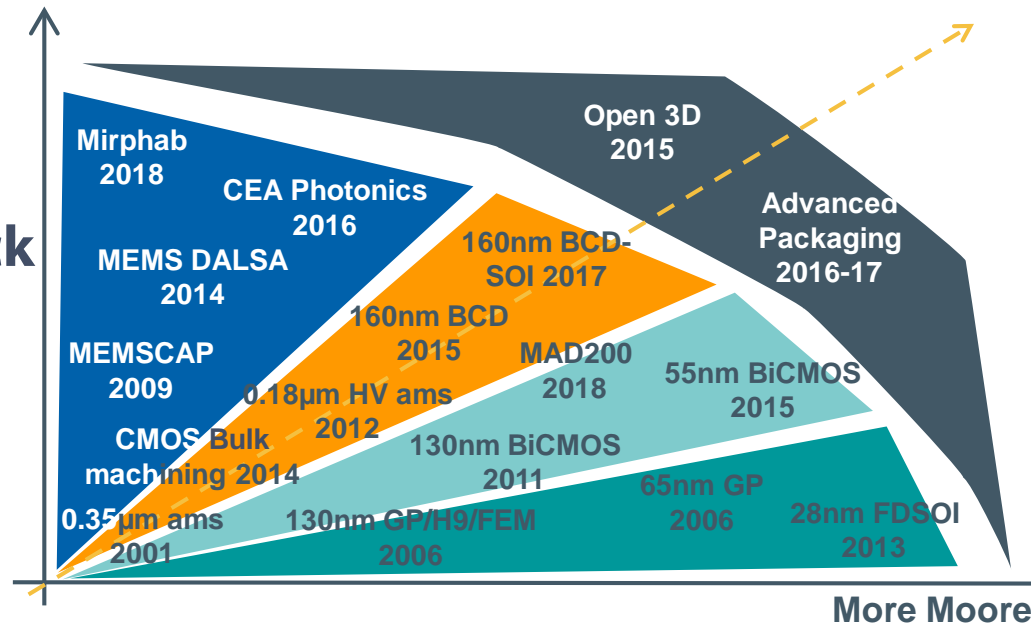


# Possible through CMP

- **Online IP and expertise catalog.** Called Add-On services, you will find complementary services, with and IP catalog to be filled up !

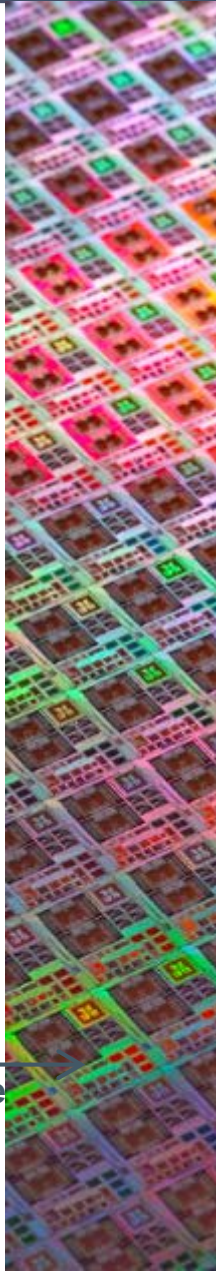
- Release in January 2019, **Online web application to access DK and IP blocks**, within the community of users per technology !

- Come and speak with us **how to share your IP block** on any of CMP technology service



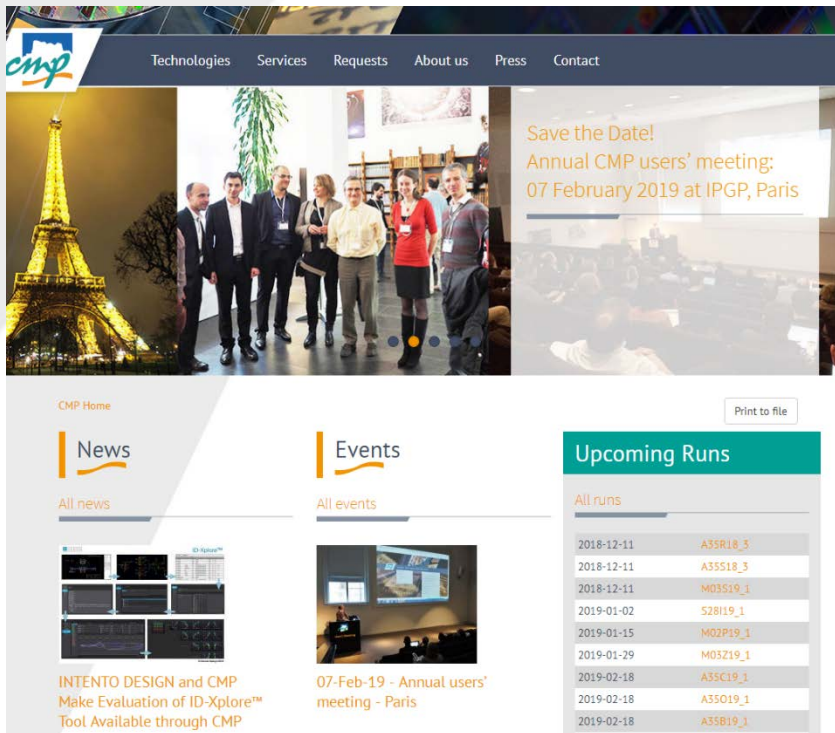
➤ ams:	+3800	since 1992
➤ ST130nm:	+700	since 2003
➤ ST65nm:	+700	since 2006

More Moore



# From layout to chips

Join us in **Paris on February 7<sup>th</sup> 2019** for next CMP annual meeting.  
 New services / Update on technology portfolio.  
 New technology introduction from providers' experts!  
 All presentations are in English.



The screenshot shows the CMP website homepage with a navigation bar (Technologies, Services, Requests, About us, Press, Contact) and a main banner for the 'Annual CMP users' meeting: 07 February 2019 at IPGP, Paris. Below the banner are sections for 'News', 'Events', and 'Upcoming Runs'.

Upcoming Runs	
Date	Run ID
2018-12-11	A3SR18_3
2018-12-11	A3SS18_3
2018-12-11	M03S19_1
2019-01-02	S28I19_1
2019-01-15	M02P19_1
2019-01-29	M03Z19_1
2019-02-18	A3SC19_1
2019-02-18	A3SO19_1
2019-02-18	A3SB19_1



**Thank you !**

E-mail: [cmp@mycmp.fr](mailto:cmp@mycmp.fr)  
<https://mycmp.fr>