

# MF Manufacturing MNT Workshop

Jan Eite Bullema

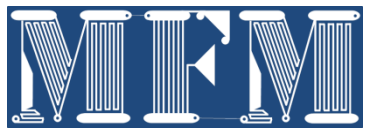
13-13-2016



# Microfluidic Standards Workshop

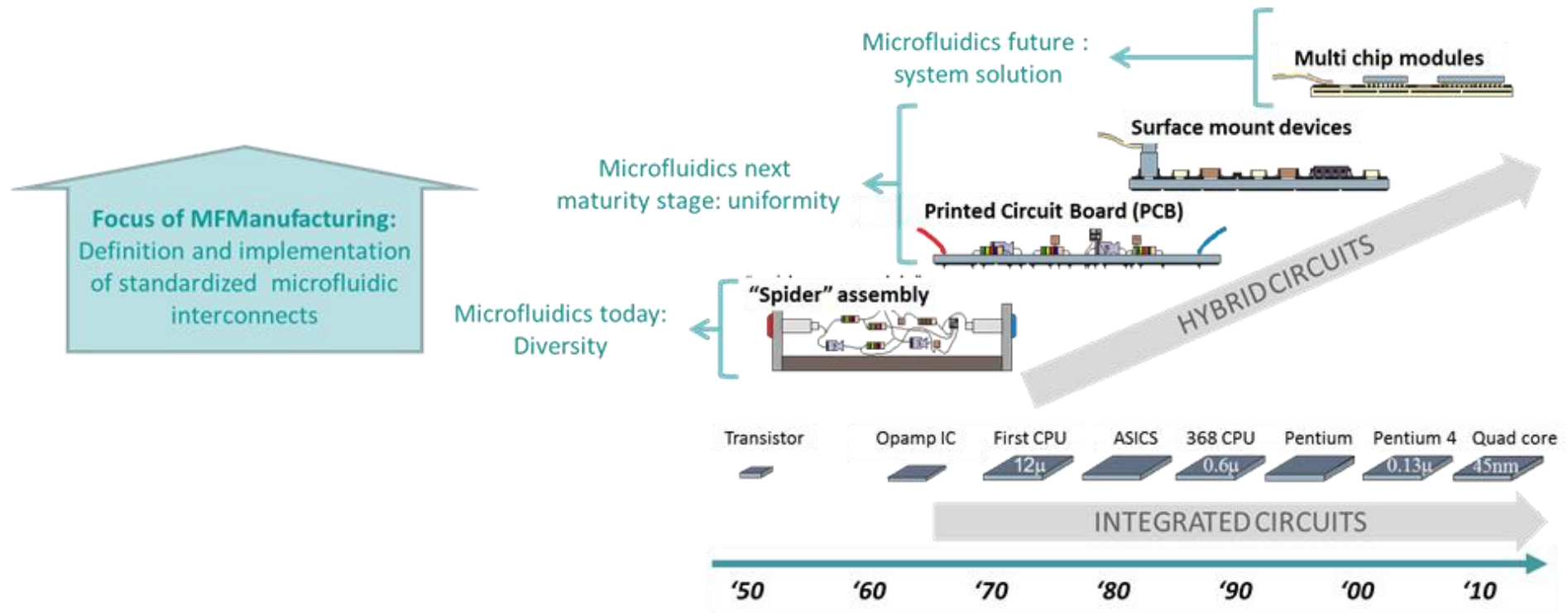
## Agenda

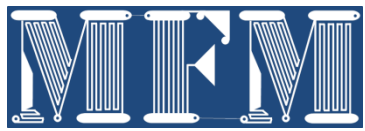
- Welcome (Jan Eite Bullema, TNO)
- Purpose of the Workshop (Jan Eite Bullema, TNO)
- Who is in the Workshop – Introduction round (All)
- MFM project (Marko Blom, Micronit)
- MFM Markets (Nicolas Verplanck, CEA LETI)
- Demonstration of PDK (Marcel van der Vliet, PhoeniX Software)
- Discussion Microfluidic Standardization (All)
- Close



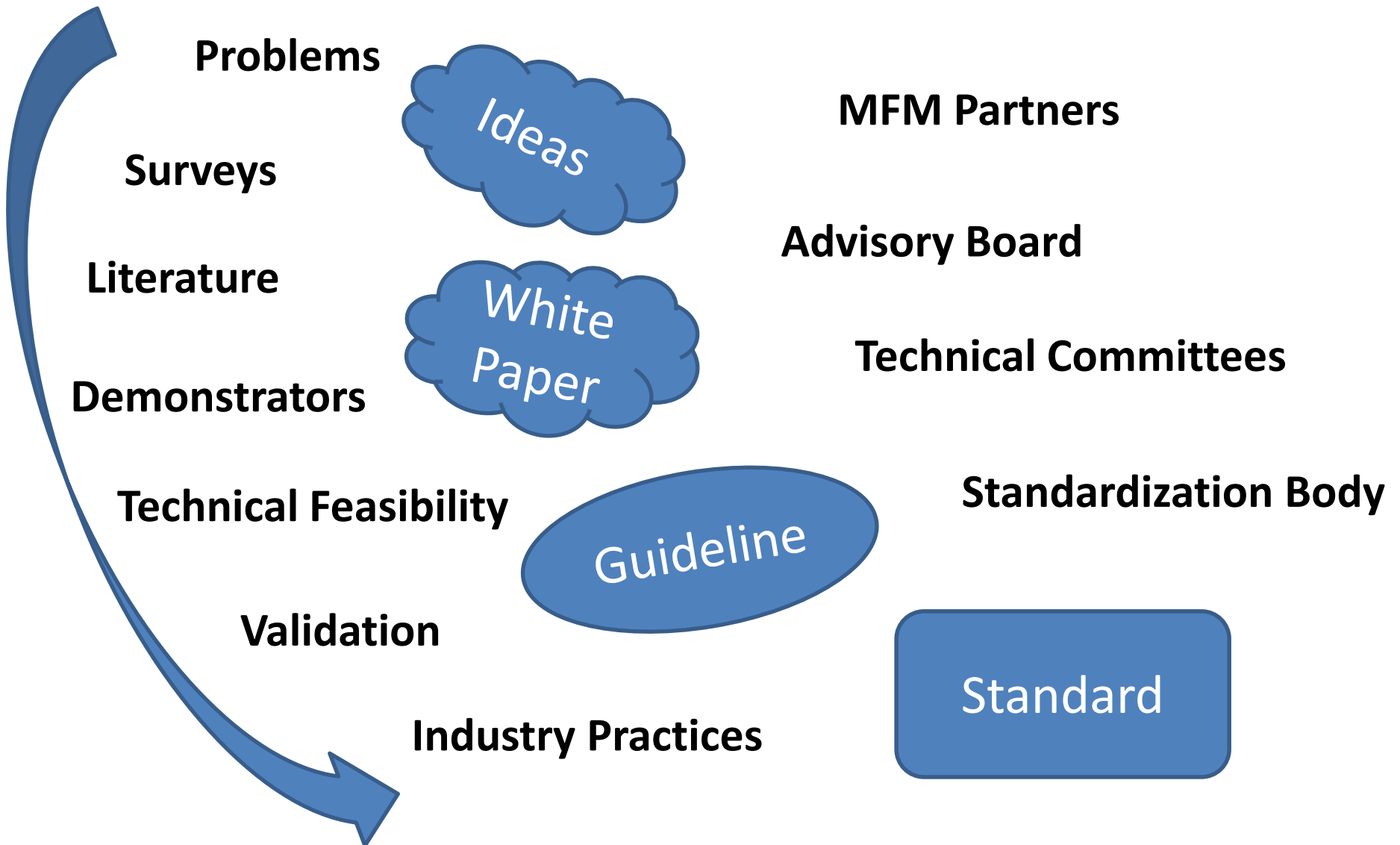
# Objective of the MFM project

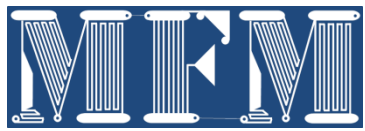
The objective of the MicroFluidic Manufacturing project is to bring the manufacturing of microfluidic devices to the same level of maturity as electronic devices, enabling them to address more widely in the healthcare needs





# How do MFM standards emerge





# Results of the MFM initiative

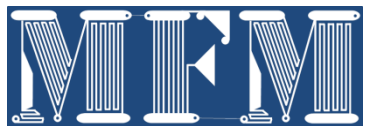
A published ISO IWA standard for microfluidic interconnections,  
[http://www.iso.org/iso/catalogue\\_detail.htm?csnumber=70603](http://www.iso.org/iso/catalogue_detail.htm?csnumber=70603)

Process Design Kit software, enabling structured design of microfluidics devices by adopting the design approach used successfully in the semiconductor industry,

Distributed Pilot Line, structuring the European microfluidics community to enable structuration of complex micro-fluidic devices manufacturing,

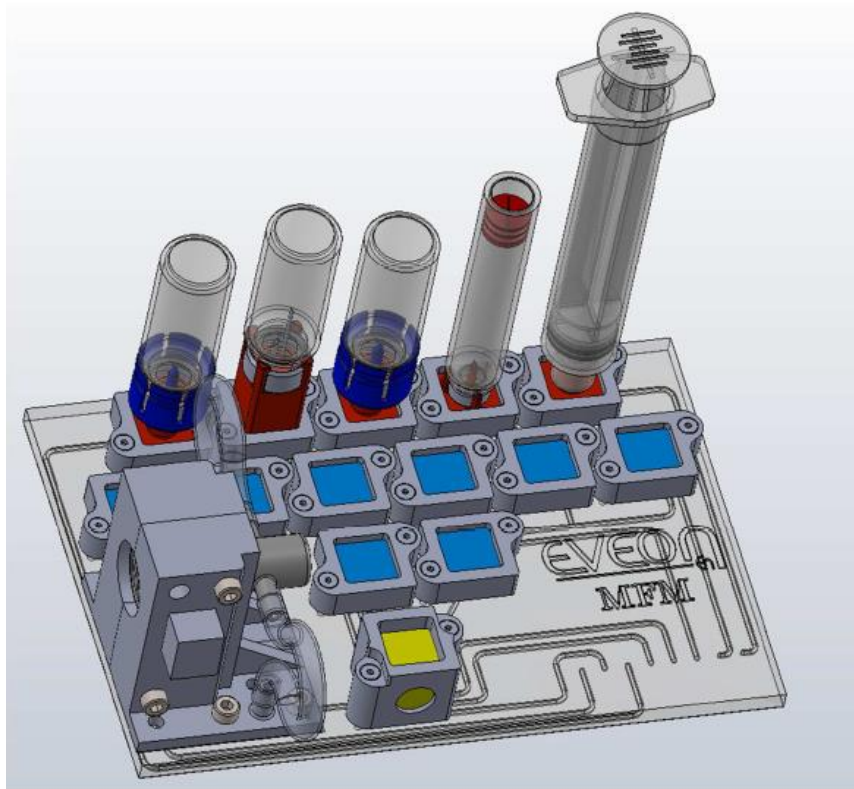
Surveys that give insight in industry demands

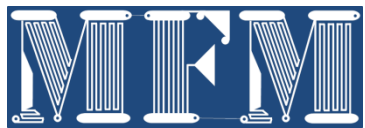
Actual microfluidic products that have been produced using the MFM standard



# Purpose of the Workshop

The MFM initiative invites microfluidic experts to give feedback and to actively participate in further standardization efforts. So there is the opportunity to meet the MFM community face-to-face at the MFM workshop



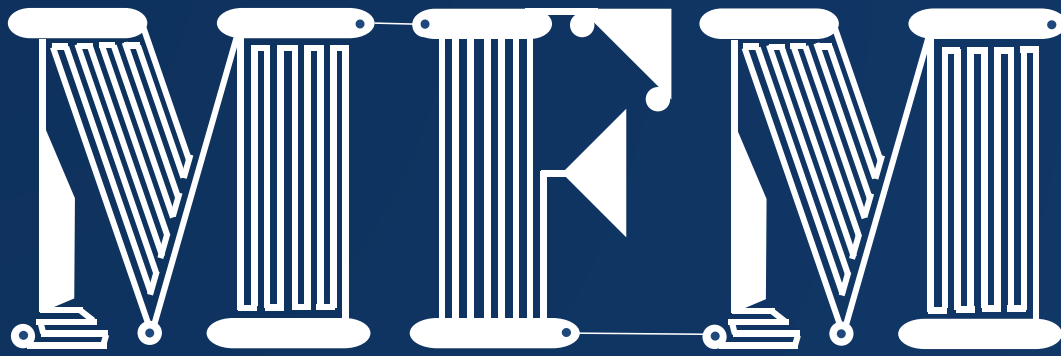


# Discussion

## Microfluidic Standardization

### Some Statements

1. Do you see advantages in foot print standardization
2. Interconnect pitch standardization
3. Standardization of materials used
4. What components need standardization: pumps, detectors, mixers
5. ....



Thank You for your attention

