Test beds and Pilot lines will foster the development of the future 450mm equipment

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How do you envision a Pilot line?

Source: STMicroelectronics
Or maybe something like this?

Source: STMicroelectronics
How do you envision a test bed?
Test beds are the appropriate place to develop isolated equipment
Equipment footprints will be determining factors for future manufacturing.
Automation is the only possible path to face 450mm
In the past, it was possible to transport 25 wafers with a tweezer and boat. In the 80’s, 4” wafers were standard in wafer fabs.
The Foup was introduced with 12” wafers.
Physical change in wafer dimension

- Wafer Diameter
  - 450 mm

- Wafer Thickness
  - 925 µm

- Wafer weight
  - 342 g
Test beds are the right place to develop new equipment
Or to test disruptive solutions
With possible retrofit to 300 mm
Optimization of equipment in test bed...
...smooth integration into automated Pilot line

Locomotion
Recognition
Manipulation
CATRENE was the first programme to launch 450 mm projects

CATRENE Office will support Consortia with future projects focusing on specific 450 mm equipment embarking robot and integrating automation
CATRENE Overall Agenda and Timing 2014

Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec

Brokerage Event
Feb 5th, 6th Brussels

Evaluation of PO

Project Outline
APRIL 4th

Full Proposal Project
SEPT 14th

Labelization of FPP

FUNDING Negotiation with CAPA
Want to learn more?

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