

MNF: the Fondazione Bruno Kessler semiconductor Open Facility

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This talk will show how a research laboratory became an Open Facility, unique at National level: from ISO 9001-2015 certification, to guarantee research on silicon sensors and MEMS happily living together with small prototype production, to continuous investment to maintain a state-of-the-art role in the nanotechnology playground. The continuous improvement of the technology, from the 1990 first cleanroom, to the current facility, including 4 cleanrooms and laboratories completing the “value chain” from sensor fabrication to integration setup to develop fully functional prototypes.

The evolution of the facility will also be presented in terms of access policies, to manage quality, safety and IP, in consideration of the numerous collaborations with companies. A 360° perspective, with attention not only to research and technology, but also to organization, accounting, quality and sustainability. The presentation will end with some considerations about FBK and IPCE projects.