

NaMLab and Forward Insights release report exploring 3D NAND Flash Memories

Dresden, January 21th, 2014. The NAND flash industry is at an inflection point. Planar floating gate NAND flash memory is facing fundamental scaling challenges with the upcoming 16nm node probably the last generation of planar technology. What's next?

Samsung's August 2013 announcement of the production of a 24-layer vertical string V-NAND shows the way forward. Vertical NAND or 3D NAND promises to continue increases in storage capacities and lower cost per bit necessary to enable emerging applications such as solid state drives and cold flash.

In the 2D planar era, the basic underlying floating gate technology (with a few exceptions) was essentially the same amongst all the NAND flash manufacturers. However in the 3D era, all NAND flash memory manufacturers are developing different 3D architectures.

How 3D NAND Stacks Up compares the 3D NAND alternatives and provides an independent view of the technical challenges of the various implementations and illuminates the 3D NAND status of the major industry players.

"We are very pleased about being able once again to apply our expertise from research to relevant industrial topics together with Forward Insights", says the Scientific Director of NaMLab GmbH, Prof. Thomas Mikolajick.

"By combining the technical and scientific background of NaMLab GmbH with the market and technical intelligence capabilities of Forward Insights, we are able to provide our customers in-depth, independent analyses that can help them define the right strategic priorities for the future", adds Gregory Wong, President of Forward Insights.

How 3D NAND Stacks Up is authored by semiconductor process and memory development experts with a combined experience of over 60 years.

For more information on this publication, please contact forward.insights@gmail.com.

About NaMLab

The Nanoelectronic Materials Laboratory gGmbH (NaMLab) was founded in July 2006. It is now a non-profit daughter company of the TU Dresden. Labeled as an „An“-Institute of the TU Dresden the company runs on the Campus of the TU Dresden an research laboratory with four labs, a clean room and office area for more than 27 scientists and employees. Material research and development combined with the implementation in nanoelectronic devices are the goal of NaMLabs activities. In addition scientists of NaMLab are engaged in the education of the TU Dresden.

www.namlab.com

About Forward Insights

Forward Insights provides independent, in-depth market and technical intelligence services focusing on semiconductor memories, emerging memory technologies and solid state storage.

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