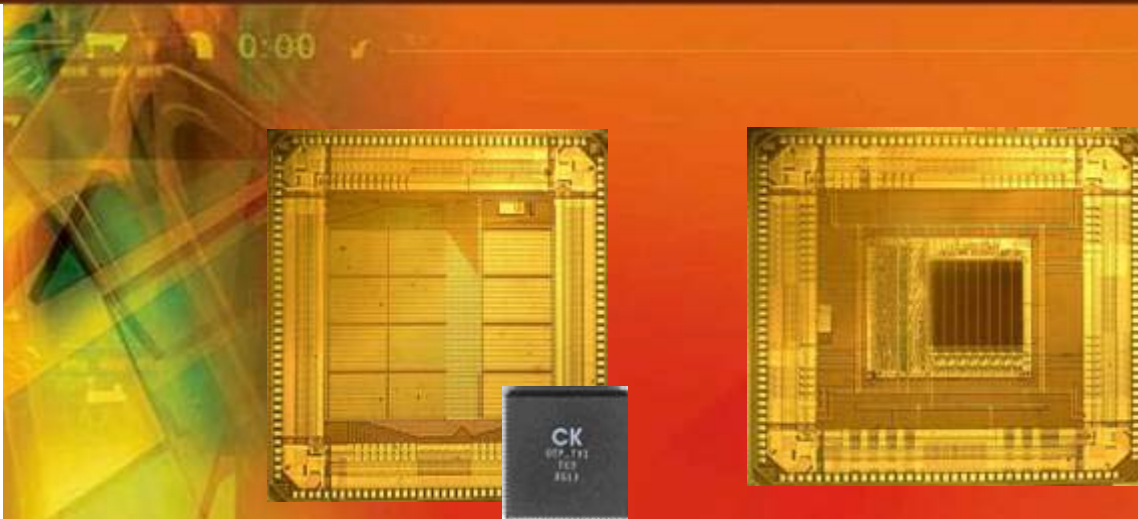




Nanomech™ eMTP



The Embedded Flash Solution



Lynx Award
Fast growing enterprises



2005



CAVENDISH KINETICS

CONFIDENTIAL

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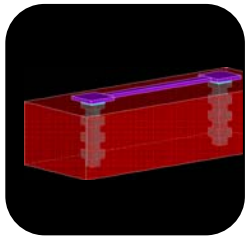
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Cavendish Kinetics

- ❖ **Cavendish Kinetics is a fabless semiconductor company developing its Nanomech™ low-power, high-speed embedded Non-Volatile Memory technology for standard CMOS processes**

Competencies



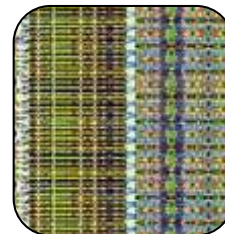
- ❖ **Standard CMOS-based MEMS Technology, Device Development, Design & Modeling**



- ❖ **CMOS Process porting, integration and qualification**



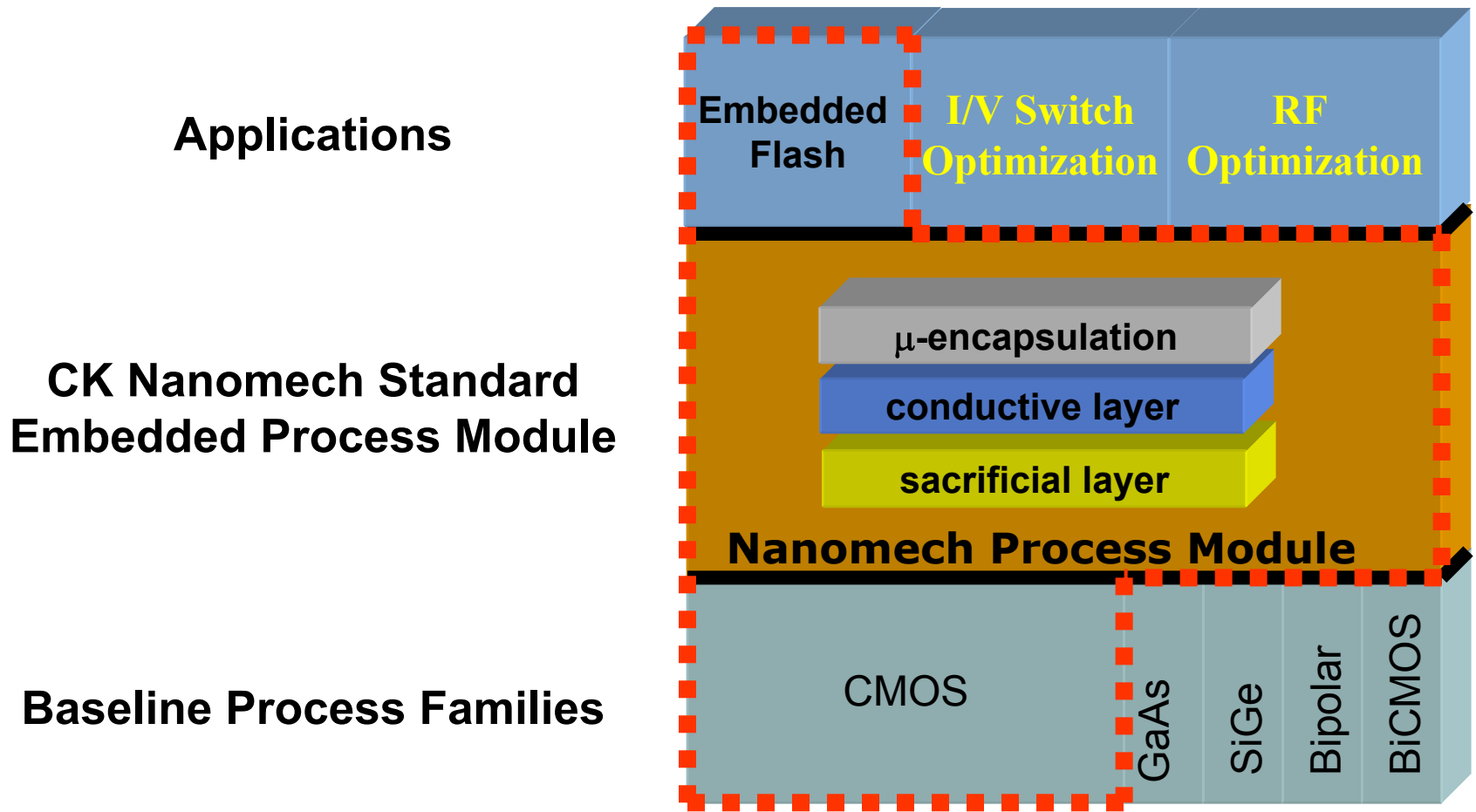
- ❖ **(CMOS) Interconnect Process Technology**



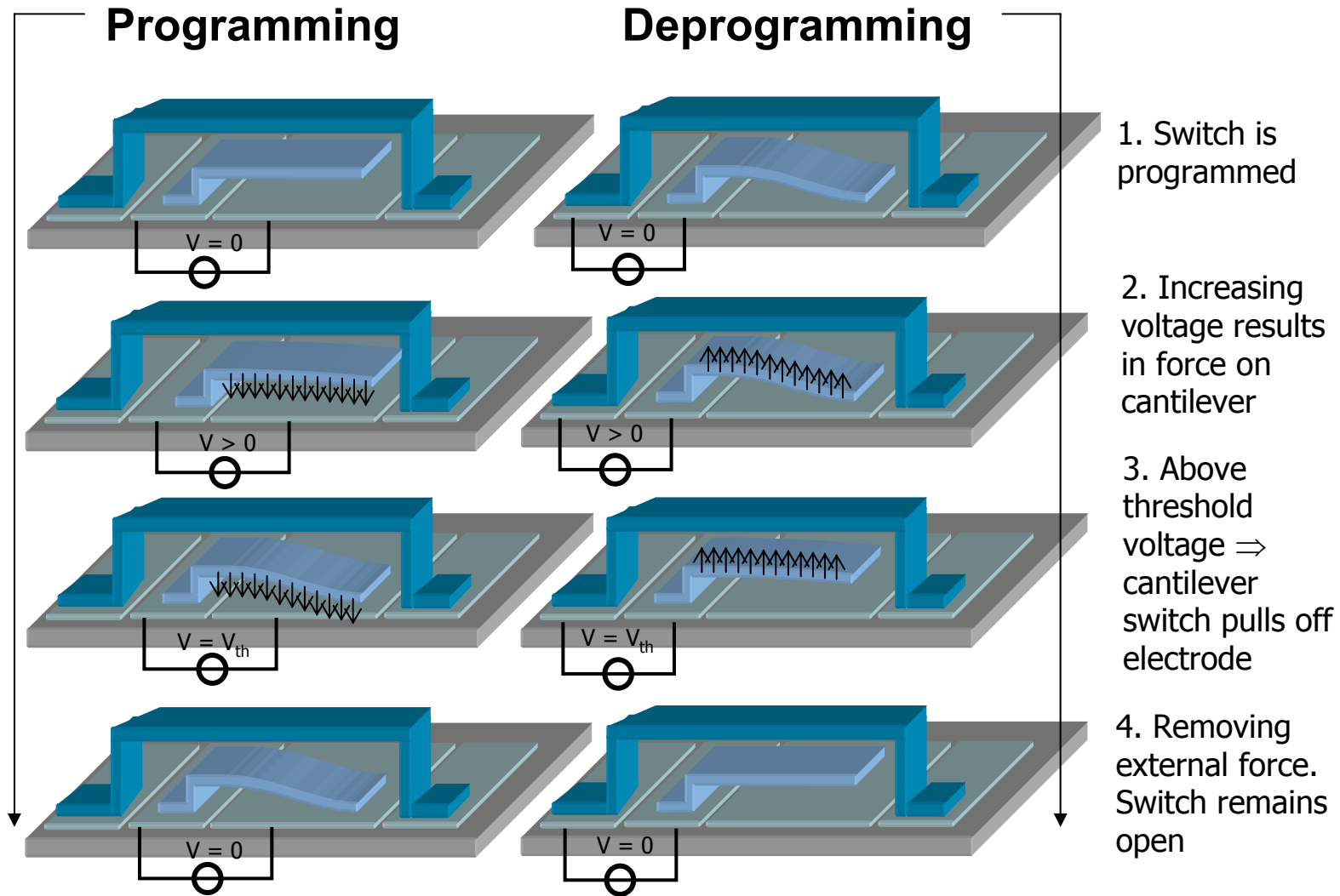
- ❖ **Memory Design, Analog- and Mixed-Signal Design**



Nanomech Application Framework



Nanomech Operating Principle





Applications Benefiting From Nanomech

❖ New Markets



❖ Existing Markets





Nanomech Technology

- ❖ **Nanomech devices are implemented in the BEOL**
 - Standard CMOS material and standard equipment
 - At any level of metal or completely on top
 - No impact on FEOL
 - TTM reduction for embedded NVM for new baseline logic process
 - Compatible with ANY other process option or IP
 - Same BEOL can fit on other process: BiCMOS, Bipolar, SiGe, GaAs
- ❖ **Nanomech is scalable to 45nm and below**
- ❖ **Fast read, write and erase times**
- ❖ **Ultra low-power at native voltage**
- ❖ **High-temperature, radiation hard**
- ❖ **Nanomech is the lowest cost embedded NVM solution**