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10 10 CMOS Generation (nm) Shaded: Projection

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- Potentially increased device variations
  - Trade Random-Dopant-Fluctuation for T<sub>si</sub> and/or W<sub>si</sub> variations
  - Lose halo  $V_t$  stabilization against LER and ACLV
  - Workfunction variability if adjustable for  $V_{t}$  tuning or,
  - Trade tuned- and multi- $V_{t}$  ability for fixed gate workfunctions

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