Transistor density over Time Fab (nm) O null **O** 4 **O** 5 **O** 6 07 0 8 0.2 **O** 12 **1**4 **O** 16 0.1 0 00 0 **28 O** 40 **O** 55 00 00 o **O** 65 08 **O** 90 0.02 **130** 0 **150** 0.01 -**O** 180 Transistor Density (B/mm2) O 220 **O** 250 O 350 **O** 500 0 Vendor 0.002 O AMD Intel **△** NVIDIA **8**000 600 0.001 0.0002 **A A** 0.0001 Δ Δ 0.00002 0.00001 -2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2024 Launch