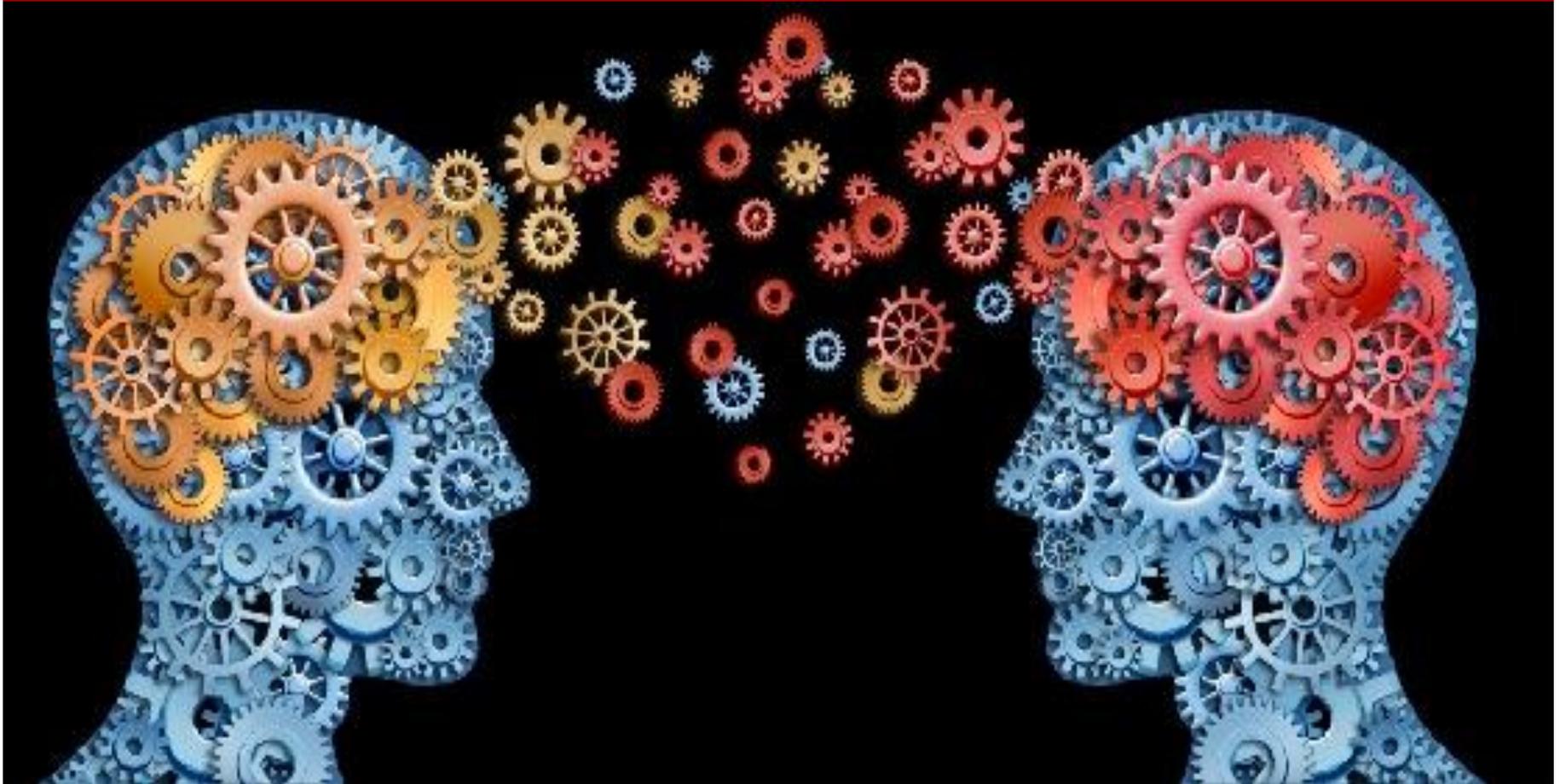


Mini Talk 2014

I²C

Computer Science Department
University of Houston



Research

- “What is your research?”



Basic research is what I am doing when I don't know what I am doing.

(Wernher von Braun)

Outside the box



What do we do?

- Crazy things
- Things people think they are impossible
- Things that are fun

“Play Is The Highest Form Of Research”

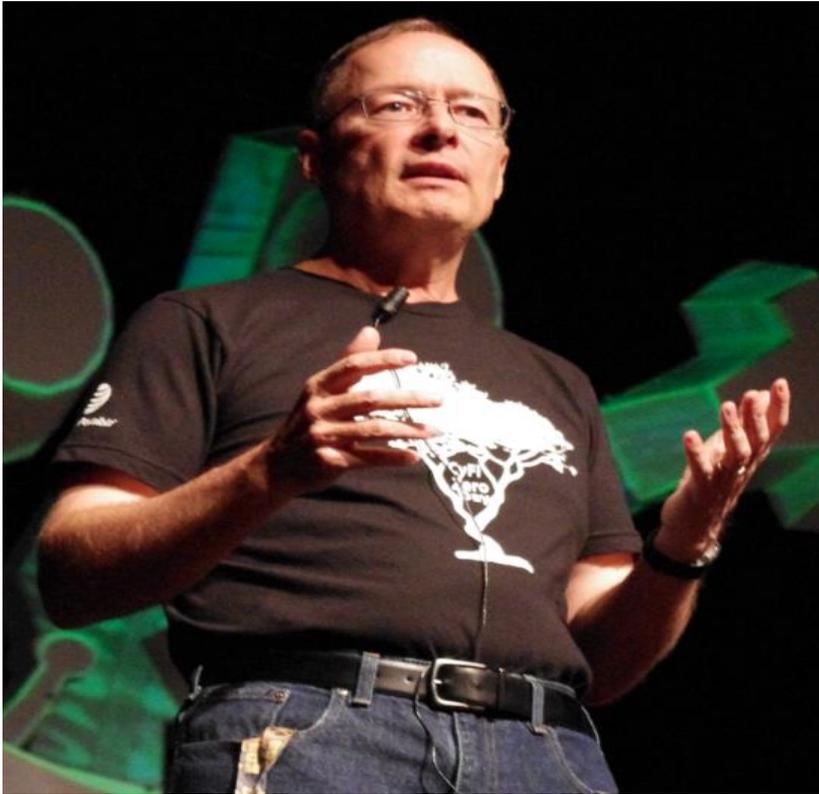
Mission

- Design and develop innovative technical solutions to address significant challenges that society faces.
- **Research focus**
 - Security and privacy
 - Economies of scale side of computing
 - Cyber human system
 - Any crazy ideas related to computing

We go to Defcon



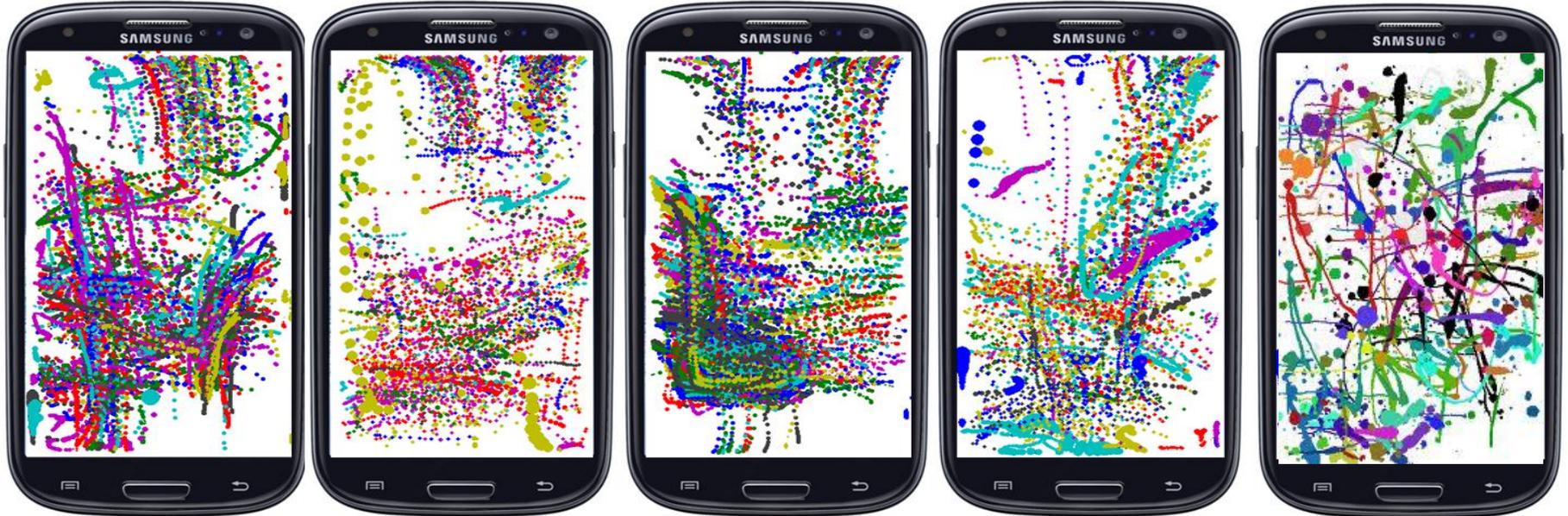
Defcon



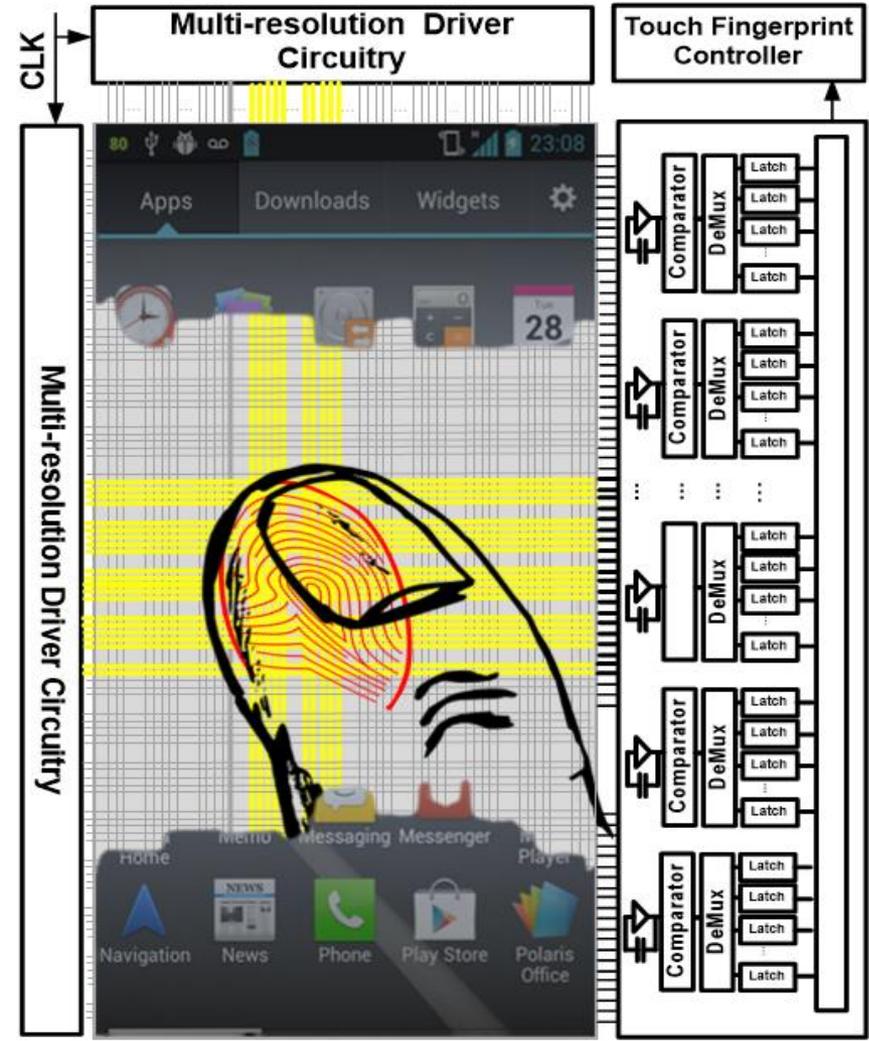
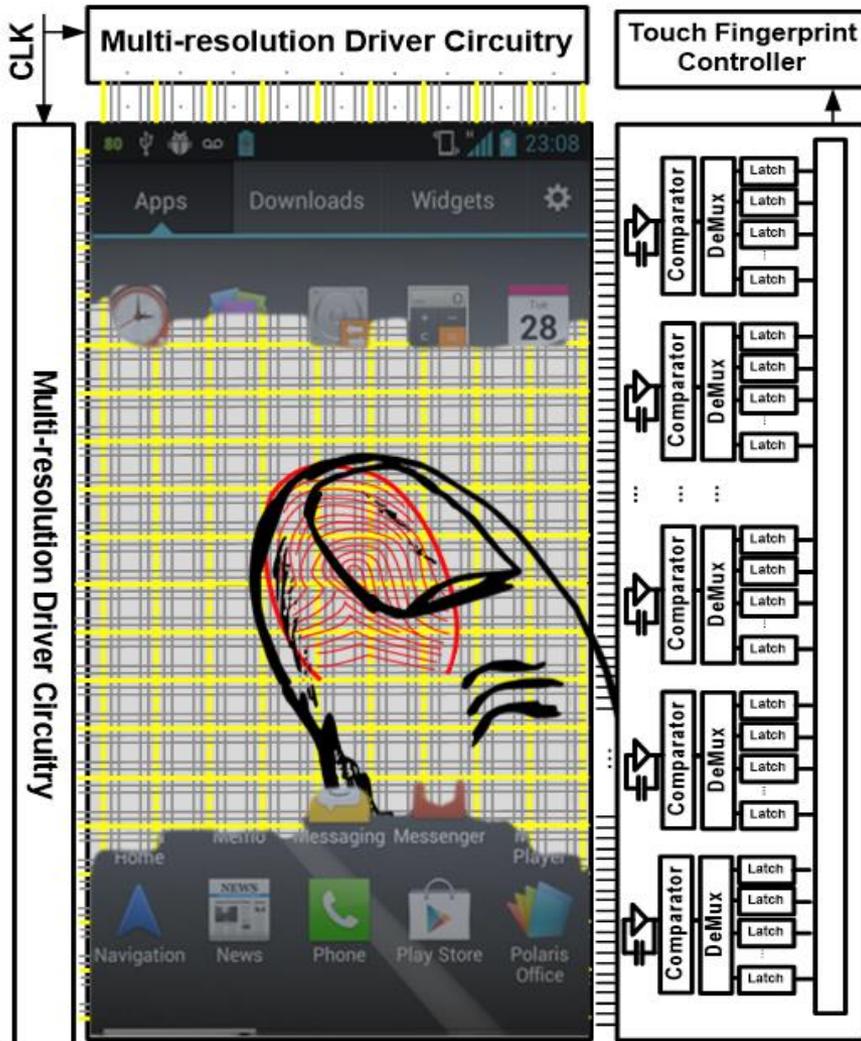
Mobile Identity Control



Verify users from touches



Unified device for touch sensing and fingerprint scan



Big Data Privacy and Secrecy





Hollywood hacked: Dozens of explicit celeb photos leaked online

 **CBS**
THIS
MORNING

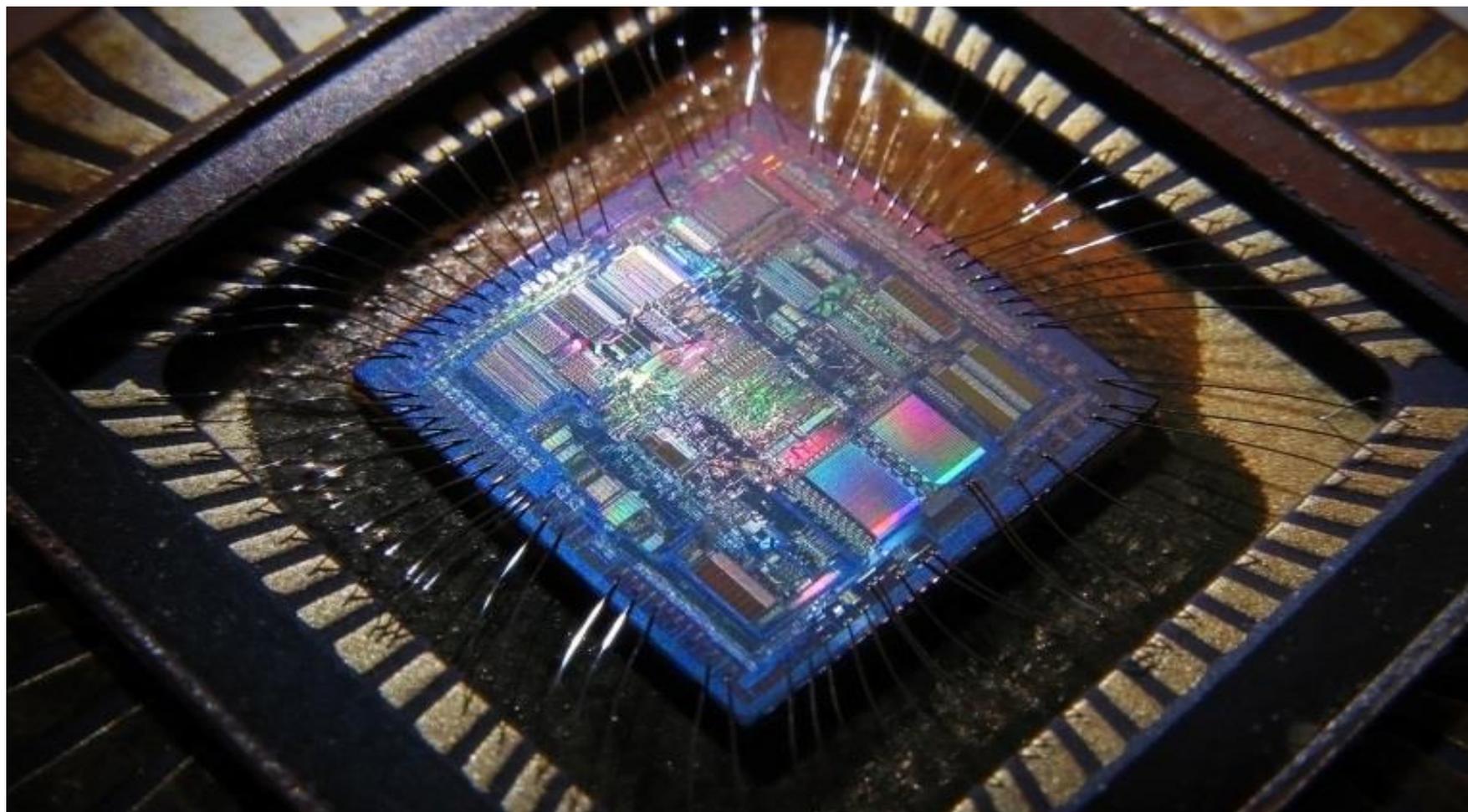
SEPTEMBER 1, 2014, 7:04 AM | Dozens of private, nude photographs were accessed from A-listers' cloud-based storage systems online. Celebrities including Jennifer Lawrence, Mary Elizabeth Winstead and Kate Upton were targeted. Anthony Mason reports.

NIH – **BIG** Data

NIH – Big Data to Knowledge

- What is BD2K?
- Why is NIH investing \$100M in this?
- For information about BD2K – [click here](#)
- The following slides are highlights and notes from NIH workshop events

Tamper resistant/evident computing hardware



Defeat insiders/untrusted administrators



“Big data analytics in a safe box”

Our lab



“We Have More Ideas Than People” - Nicholas DeSalvo



