

Dumb Homes, Smart People

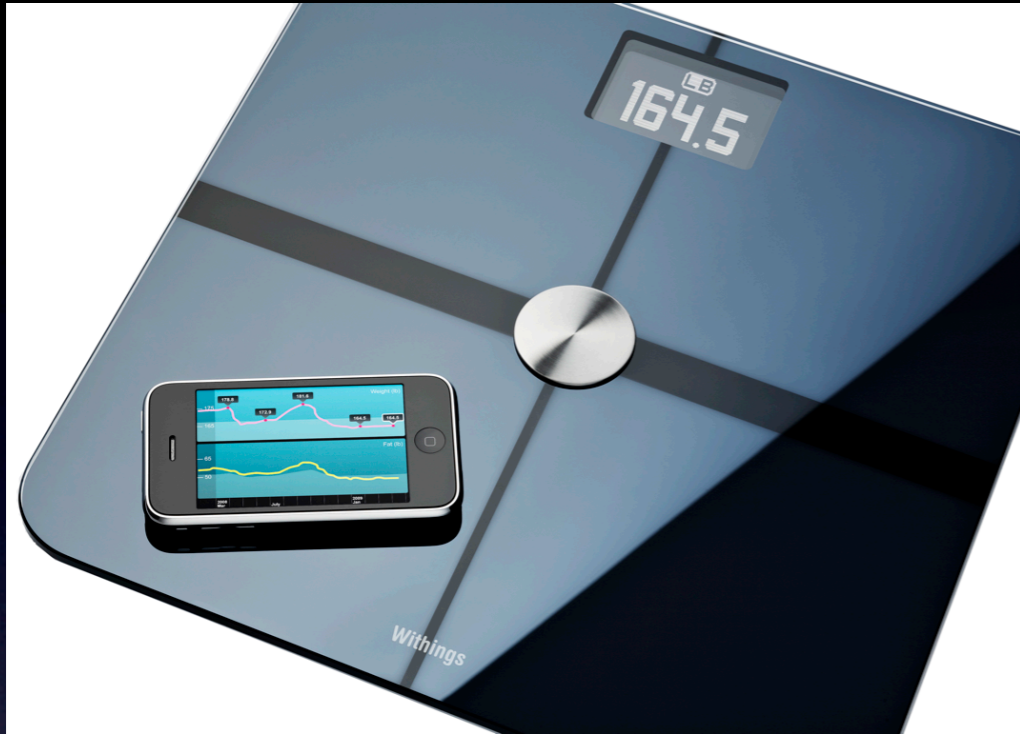
Creating decentralized systems
for the Internet of Things



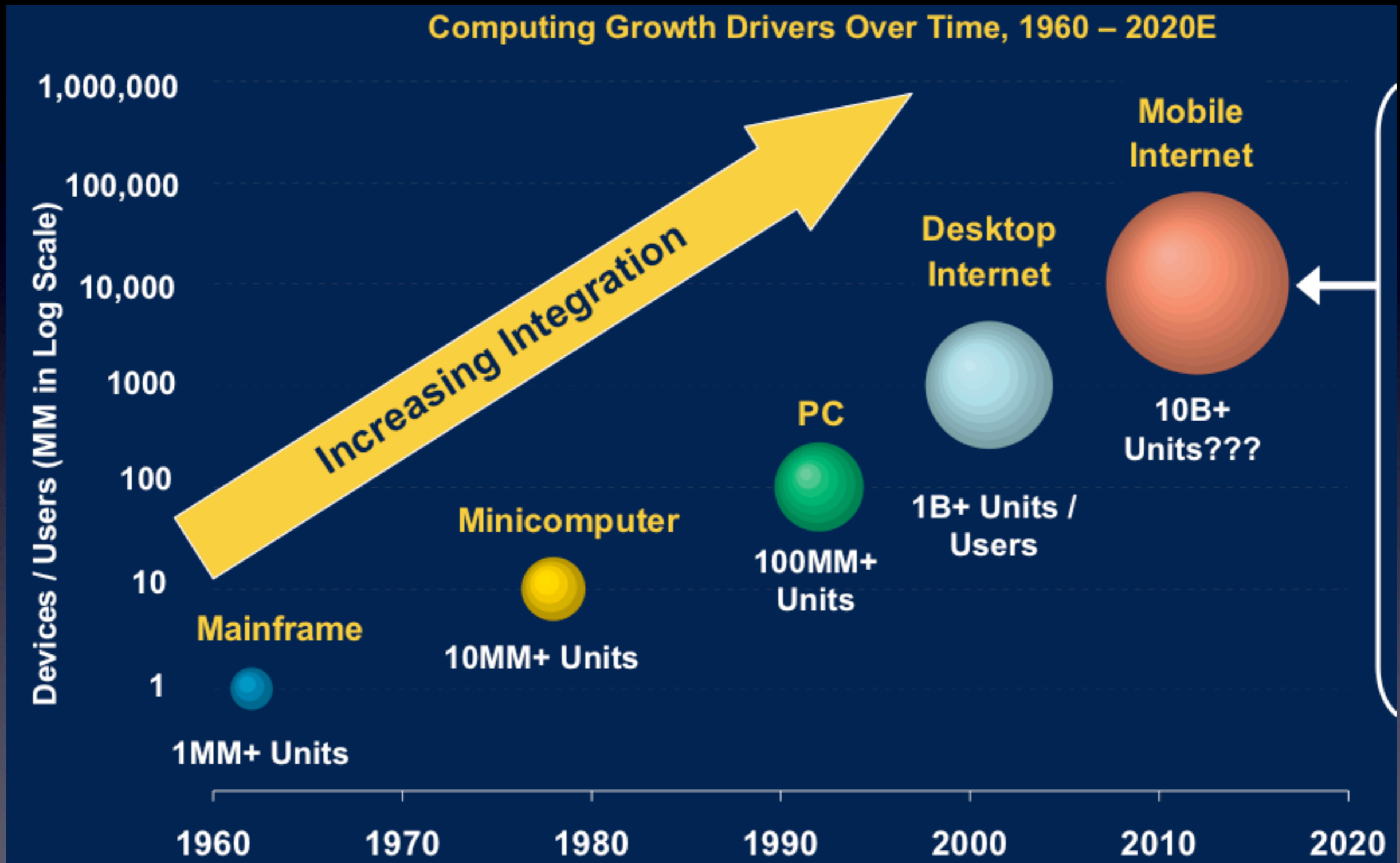
My Smart home!



Current reality



Billions of devices



Billions of devices

What will devices be running on?

How will devices find each other?

How will devices sync and store data?

Cloud Computing!

Google



facebook.

SAMSUNG



Microsoft

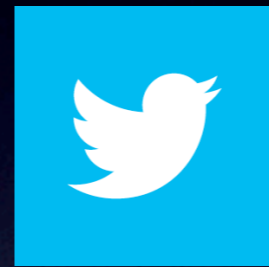


YAHOO!

amazon.com[®]

Cloud *Feudal* Computing!

Google



facebook.

SAMSUNG



Microsoft



YAHOO!

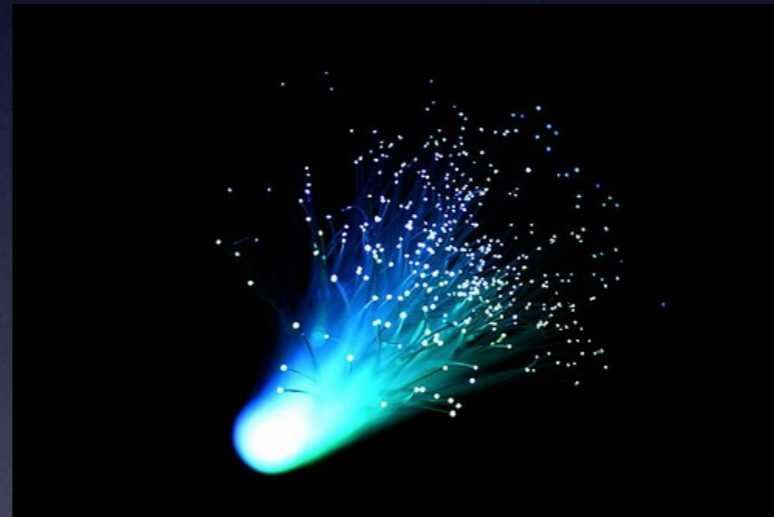
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Cloud *Feudal* Computing!

benefits:



Identity



Connectivity



Storage / Sync



Nymote

To enable the creation of resilient decentralised systems that incorporate privacy from the ground up so that users retain control of their networks and data

nymote.org

Nymote Toolstack

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Mirage OS (*application*)



Signpost (*Identity / Connectivity*)



Irminsule (*Storage / Sync*)



Nymote Toolstack

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Mirage Operating System

- Lean, mean, clean-slate OS
- Designed for cloud and embedded devices
- Increased safety and resilience



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Answer to “What will devices be running on?”



Nymote Toolstack

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Signpost

- Stable names for devices (e.g phone.amirmc.io)
- Incorporates security and key management
- Coordinates connectivity across devices



Nymote Toolstack

nymote.org

Signpost

- **Stable names for devices** (e.g phone.amirmc.io)
- **Incorporates security and key management**
- **Coordinates connectivity across devices**

Answer to “How will devices find each other?”



Nymote Toolstack

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Irminsule

- Distributed Database that never forgets
- Roll back to any point and identify changes
- Push changes easily between devices



Nymote Toolstack

nymote.org

Irminsule

- Distributed Database that never forgets
- Roll back to any point and identify changes
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Answer to “How will devices sync and store data?”



Nymote

- Read more at nymote.org
- Releases and demos in Q2 2014
- Contact me for early access! (amc79@cam.ac.uk)