

Just what scale are we talking about?

Since the start of this talk

1K+ Nokia devices were made and sold (13/sec)

15M+ phone calls were made using Nokia phones

3M+ text messages were sent using Nokia phones

At any given moment there are

350 Nokia devices at Taj Mahal

525 Nokia devices at the Eiffel Tower

5000 Nokia devices at Disney World

6750 Nokia devices in the Forbidden City

220 countries and territories tanai f. sithia digua dal unao terra del laboratore il mar caspio sithia ostra simao MARE il cataio seno persico mare mediciraneo Igange f. circolo del cancro india oftra ilgange imdia diquadalgange h 000000 etiopia Potto Pegitto leuante ponéte modo nouo linea equinoctiale % a MARE ORIENTALE MARE INDICO. monti de la lung circolo descapricorno Dog garbino firocco

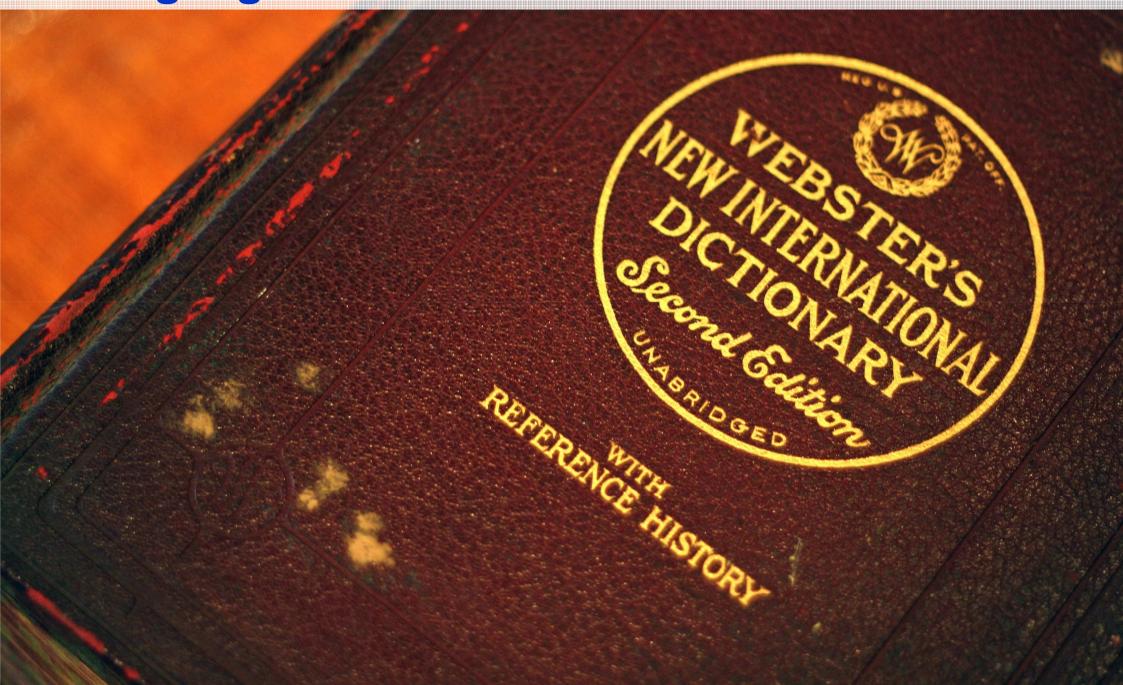
oftro

Queste linee che sono per il longo di questo vniuersale da gli sapienti surono appellate lis nee parallele, & quelle che tengono sorma curua in modo di arco, sono nominate meridias

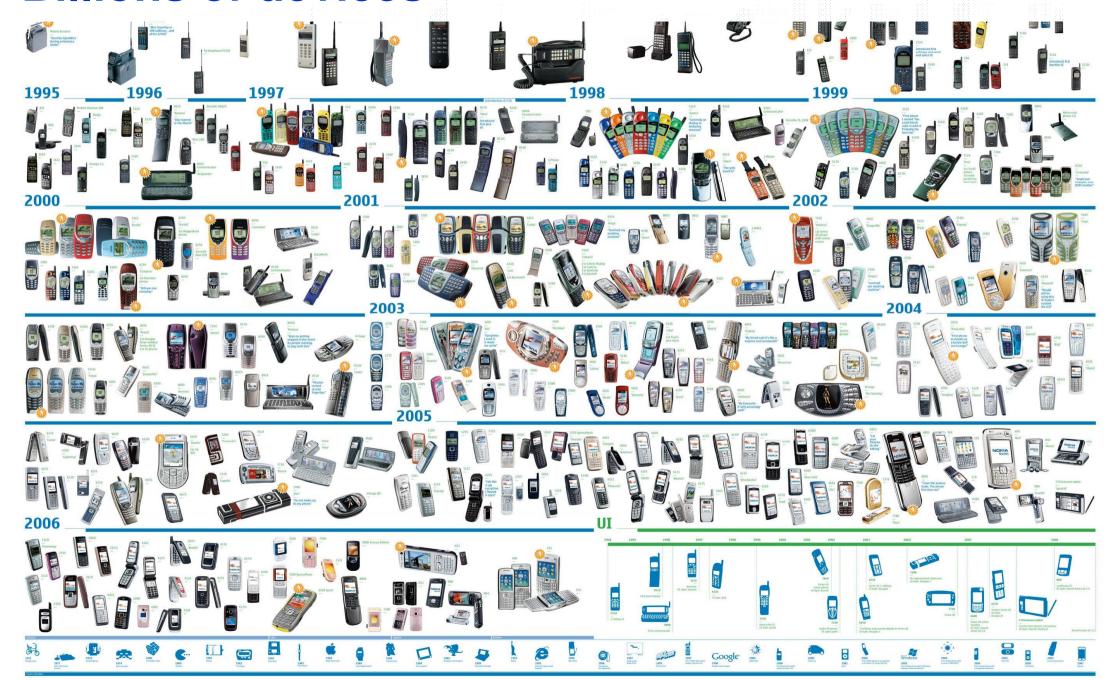
ni, & il clima tiene da leuante fino in ponente, si come fanno la linea, de lo equinottio, & quella del tropico del cancro, & del capricorno.

Frederice

46 languages



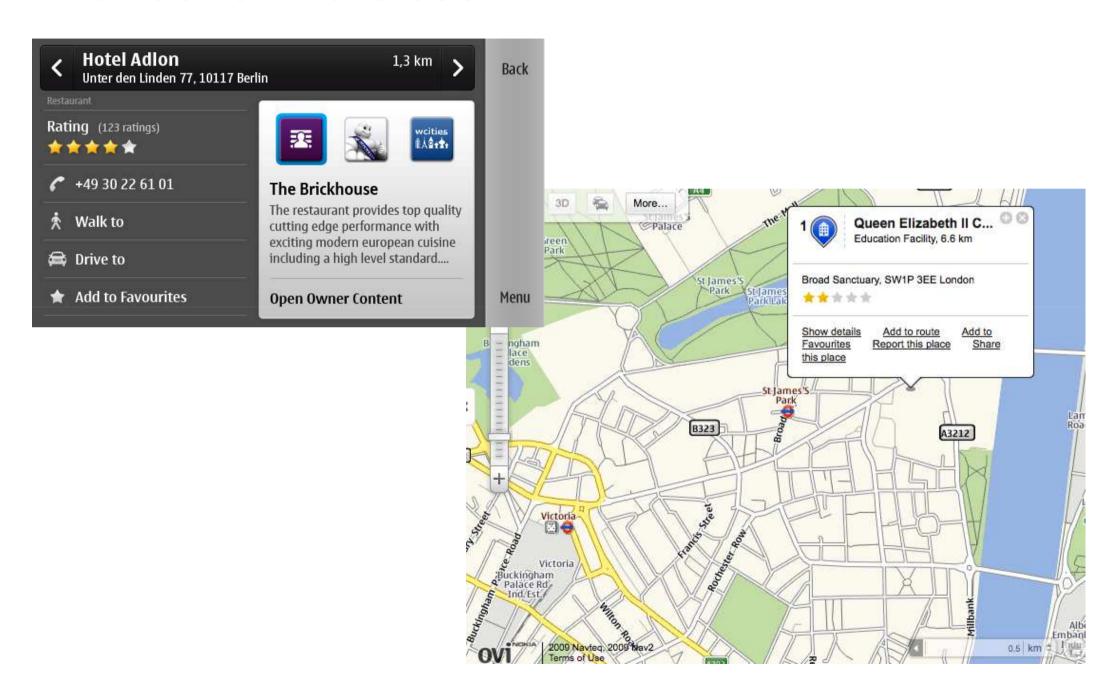
Billions of devices



82 million GPS devices



What consumers see



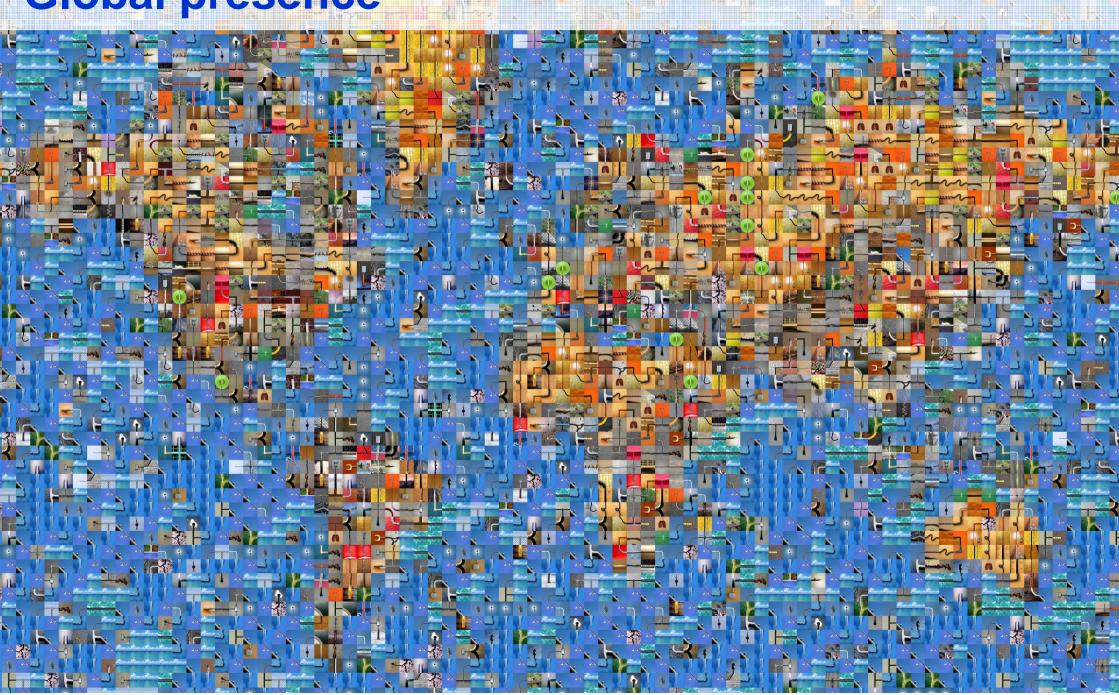
With this much reach...

Brand expectations

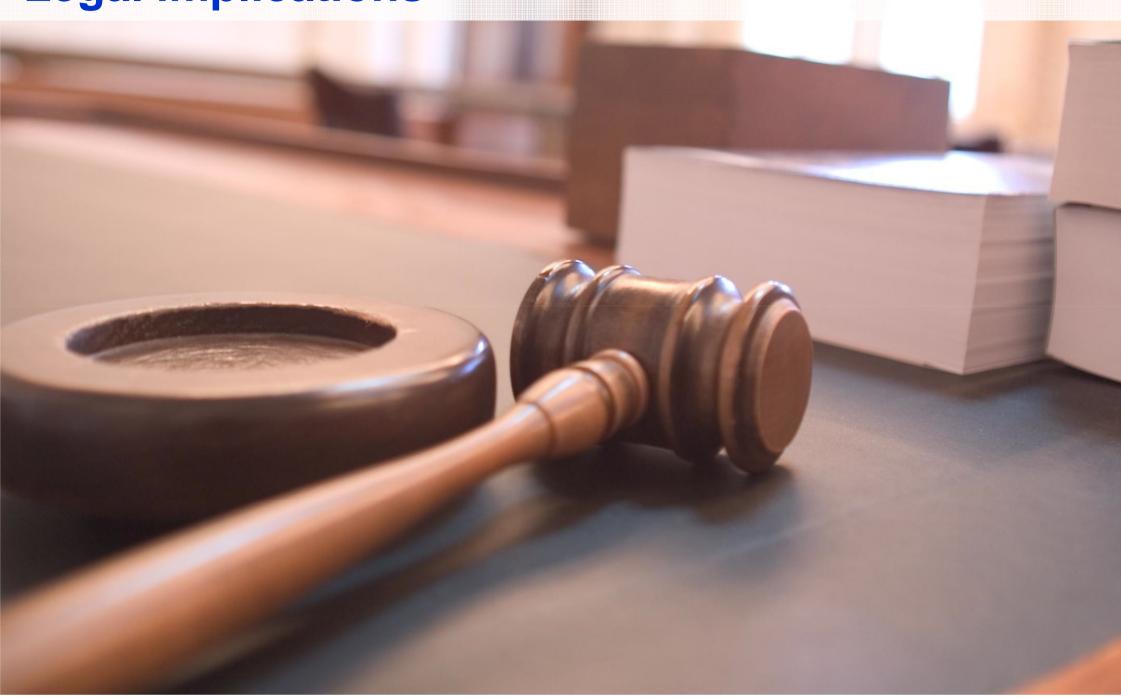
Public visibility

Nearly immediate scale

Global presence



Legal implications



A dataset of all the places in the world







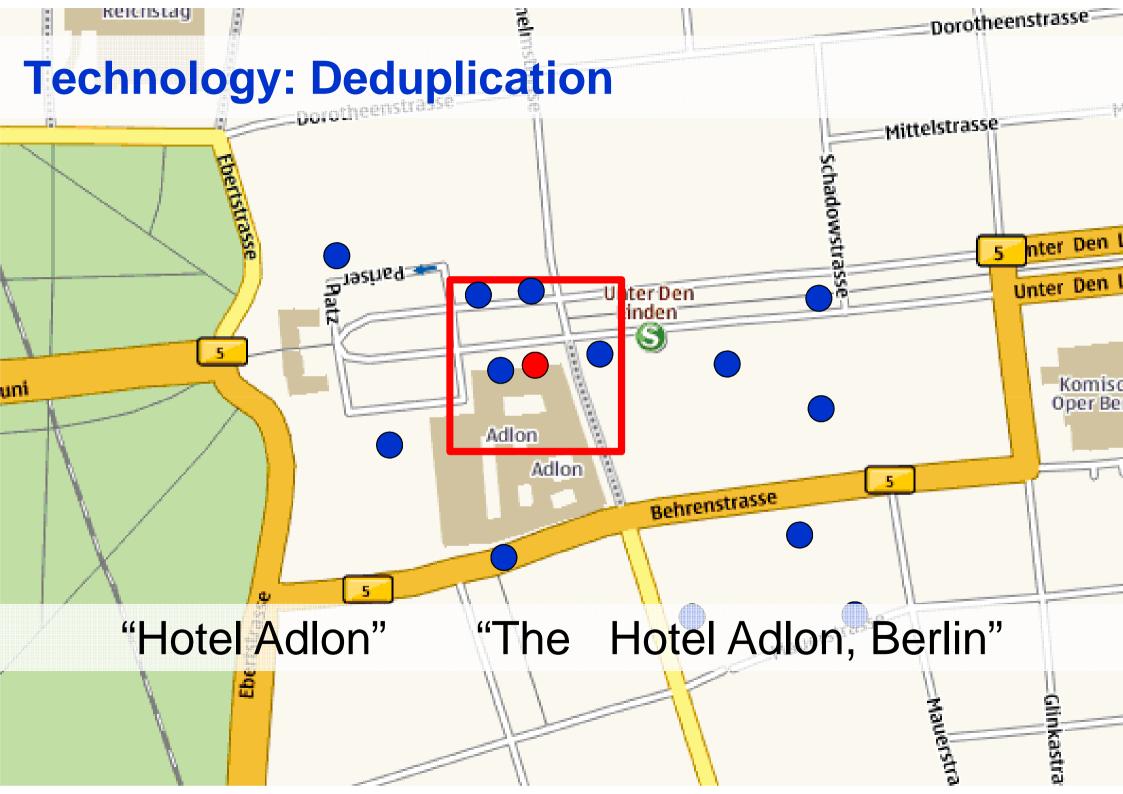
New suppliers arrive all the time



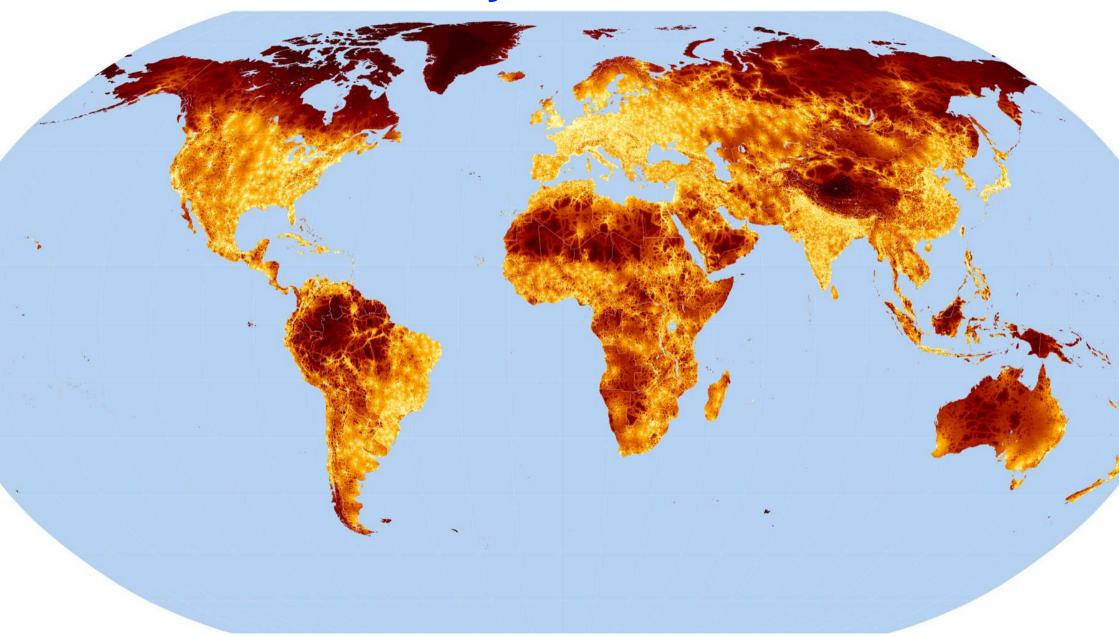
Technology: Storage







The data is not evenly distributed



Technology: Geospatial search

- "phoenix bar in warsaw"
- "paris bar berlin"
- "moma"
- "the bar"

Coping with traffic spikes



Coordinating with public announcements



Trusted Insights and Conversations on the Next Wave of Technology

With New Ovi Maps, Nokia Seeks Location Heaven

By Om Malik Jan. 21, 2010, 1:30am PST 23 Comments













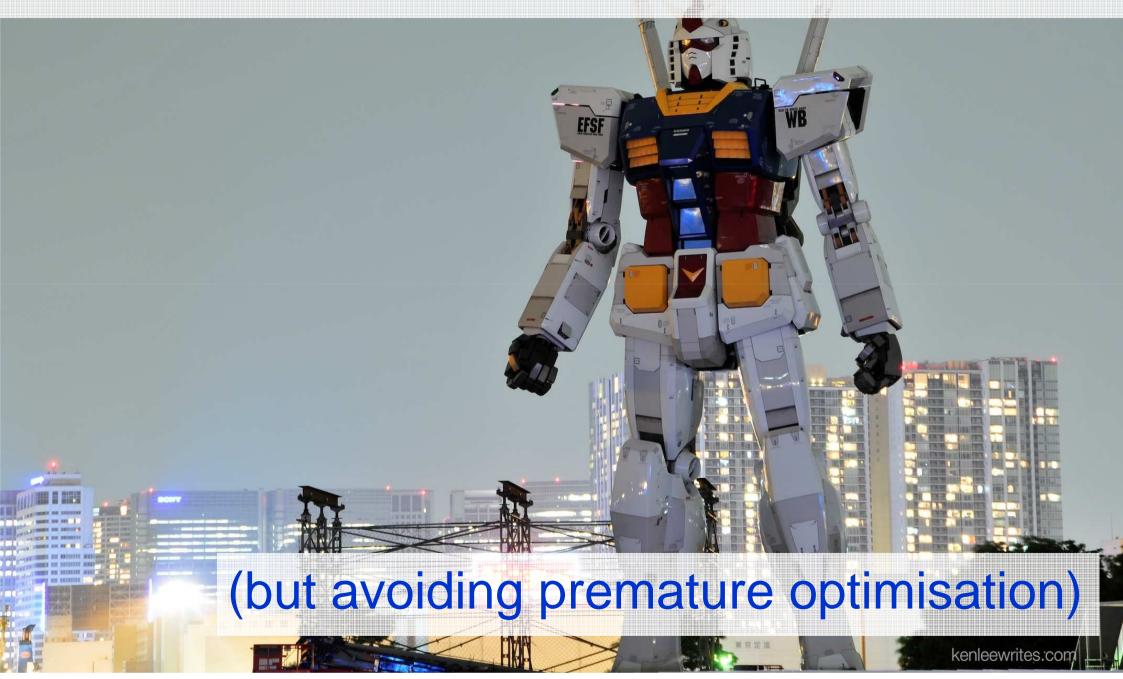
IMPORTANT POINTS

Expand +

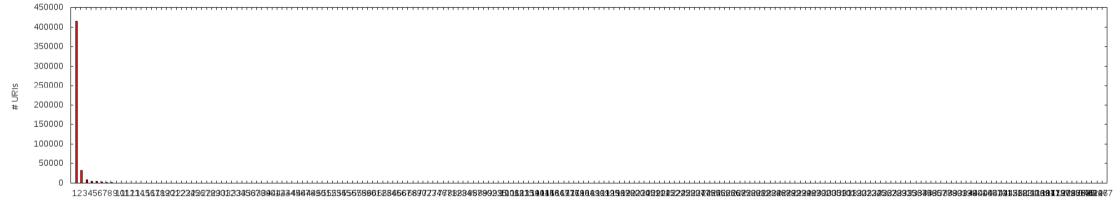
In an attempt to ward off competition from the likes of Google, Nokia, the largest maker of mobile phones, has released the latest version of its Ovi Maps software and made the app available for



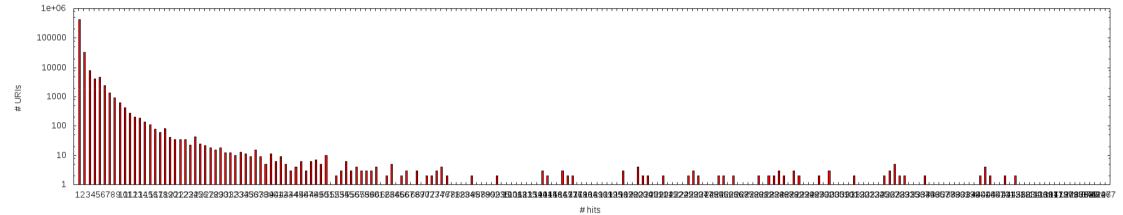
Anticipating scale



Caching



Caching



Technology: Hadoop and Pig

```
logs = FILTER logs BY
method == 'GET' AND
statusCode >= 200 AND
statusCode < 300;</pre>
```

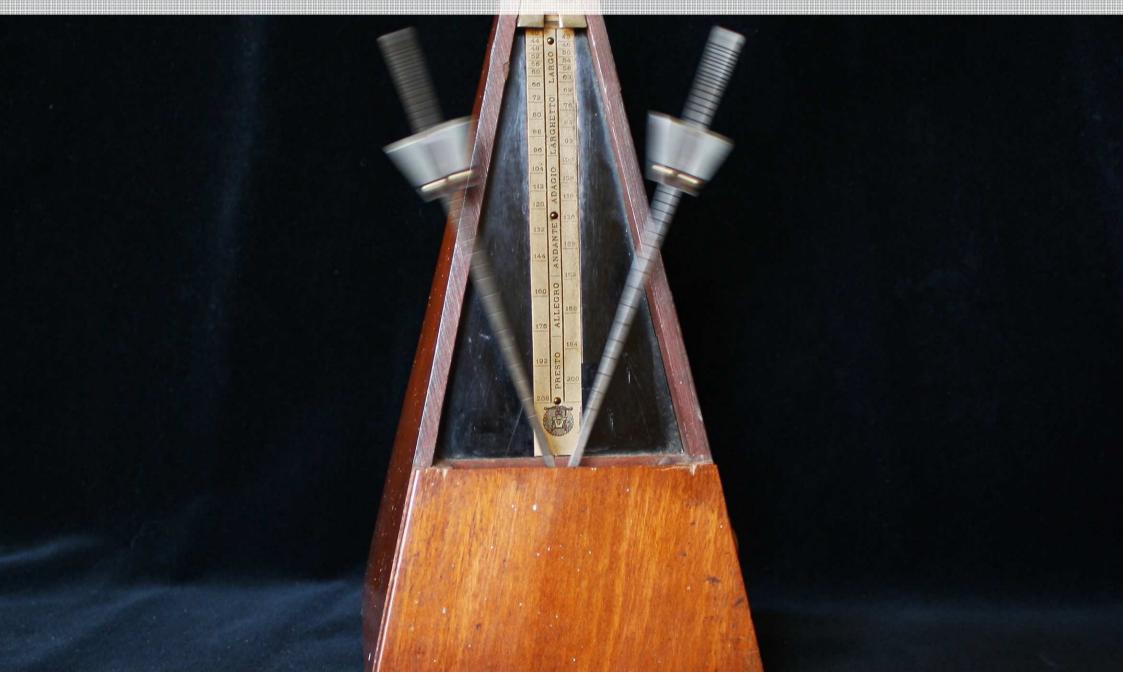
```
groupedByUri = GROUP logs BY uri;
uriCounts = FOREACH groupedByUri GENERATE
  group AS uri,
  COUNT(logs) AS numHits;
```

What's special about mobile?

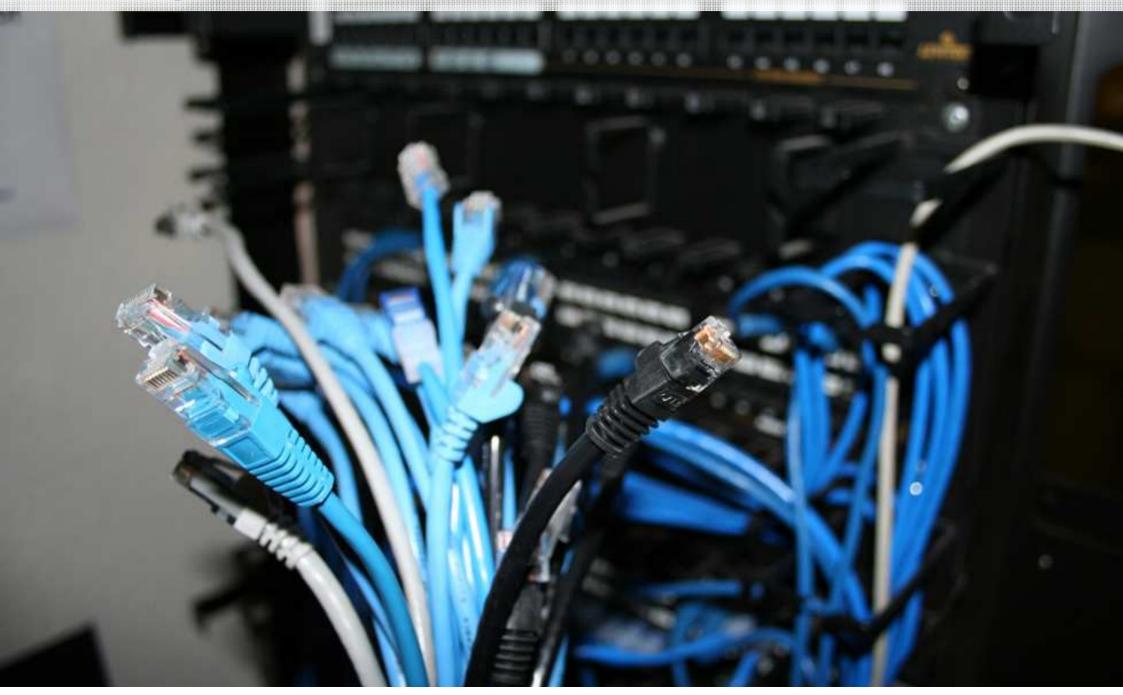
"There are four times as many mobile subscribers in the world as there are installed PCs."

- Financial Times (ft.com)

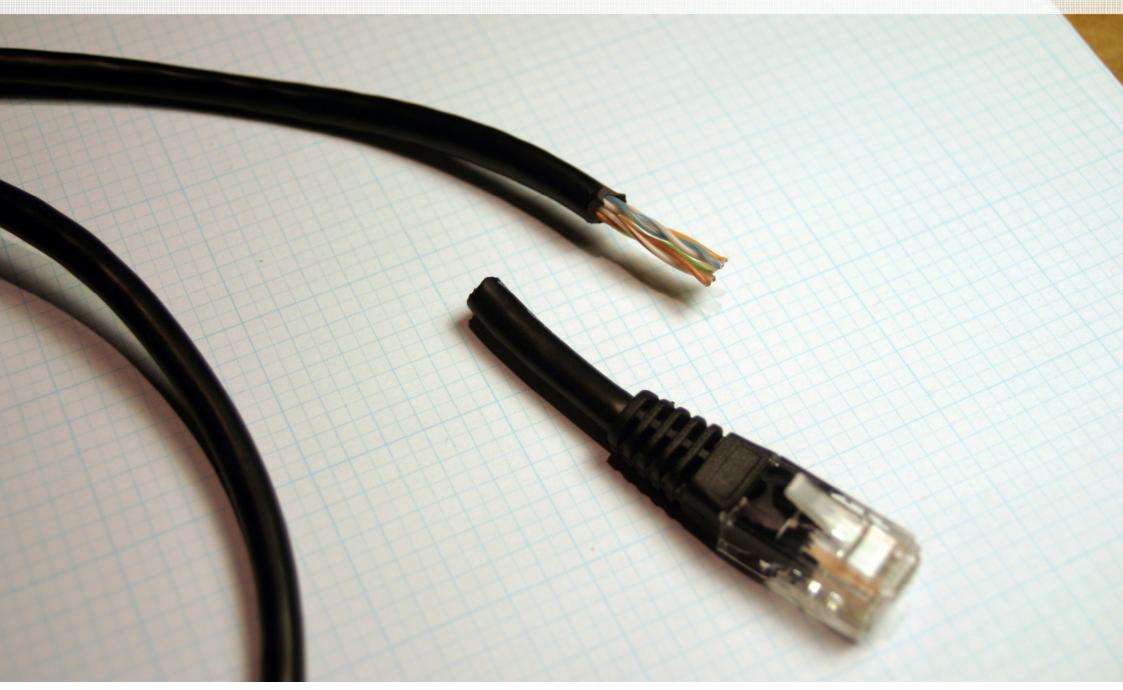
Serving to mobiles: latency



Serving to mobiles: bandwidth



Serving to mobiles: offline



What about the future?

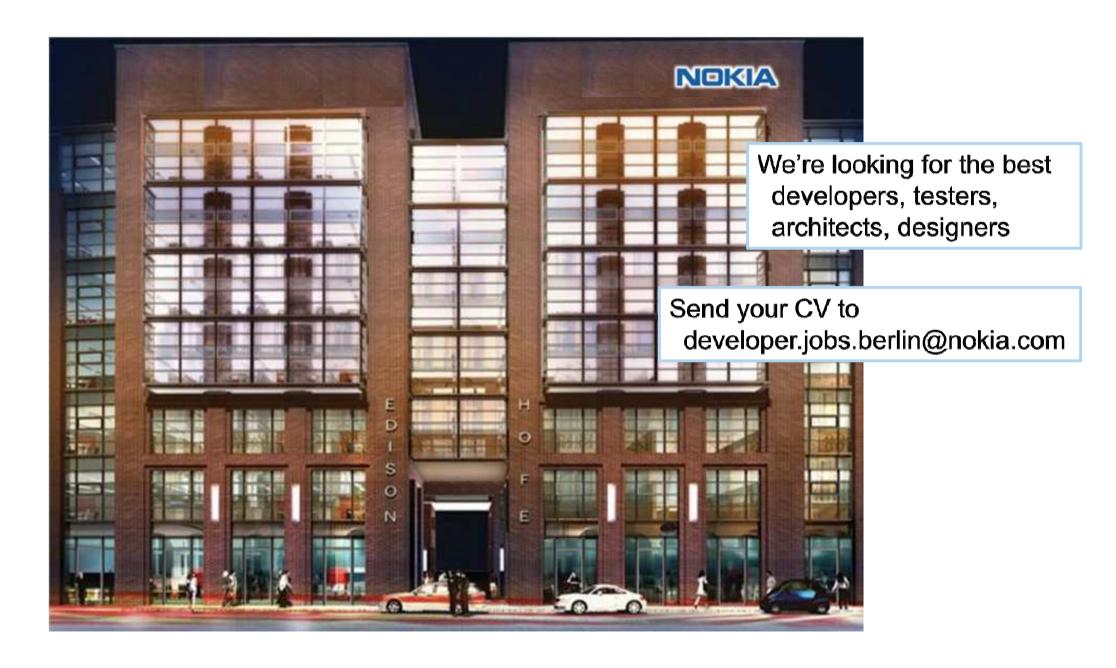
More devices

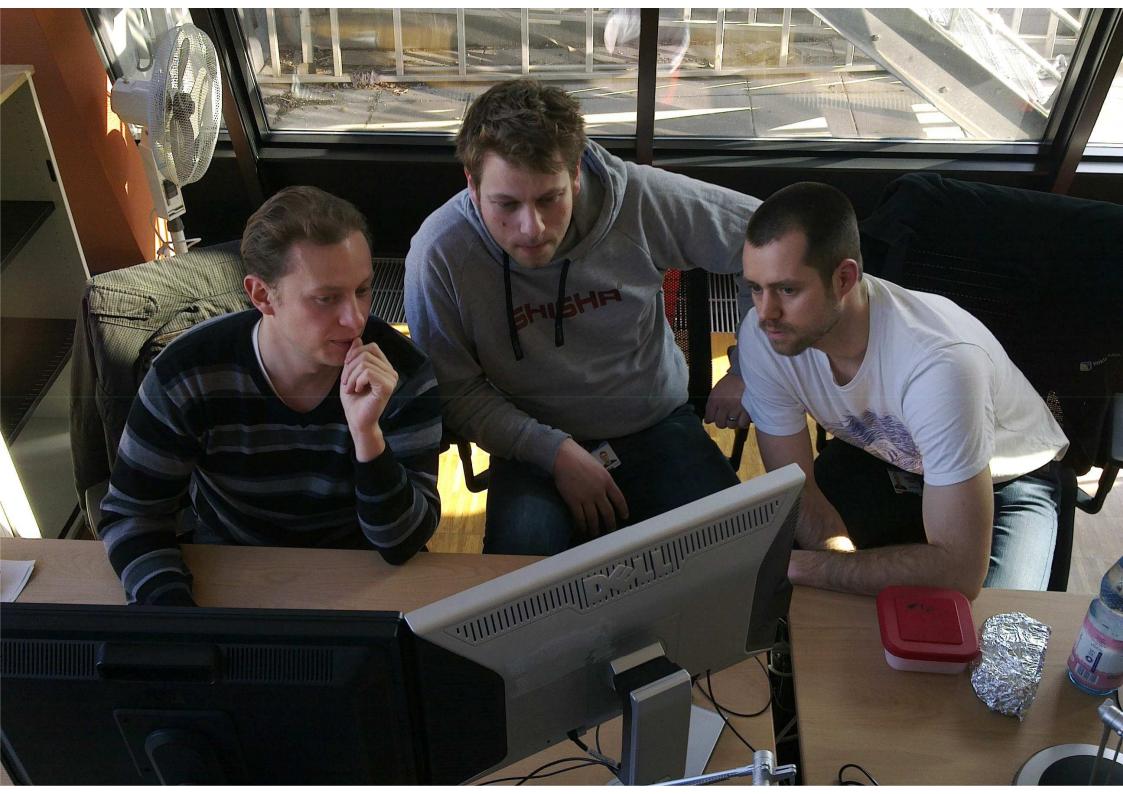
Common web runtimes

Merger of Maemo and Moblin into MeeGo

All equals larger reach

Come work with us!





Thanks! Any questions?

Josh Devins

Come work with us in Berlin

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Free beer! Whittle Room, 5:30pm