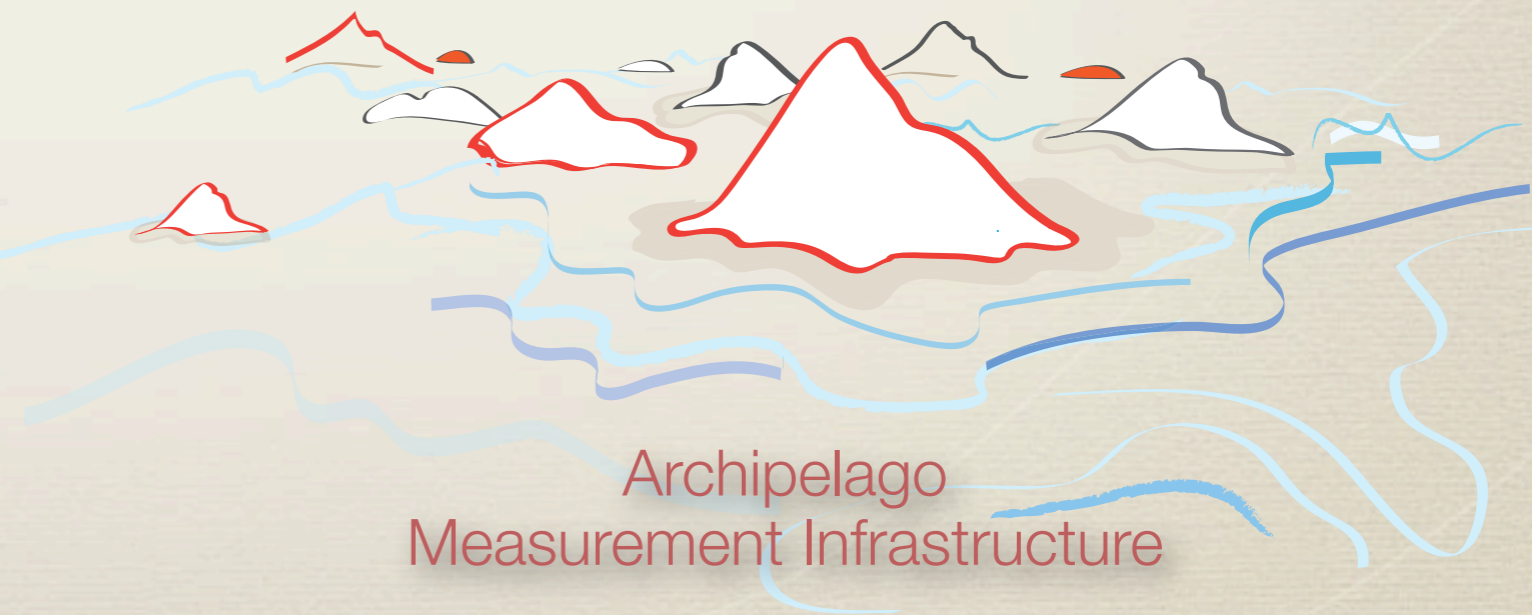


Ark Update: Vela and Raspberry Pi's

Young Hyun
CAIDA

ISMA 2013 AIMS-5 Workshop
Feb 6, 2013



Archipelago
Measurement Infrastructure

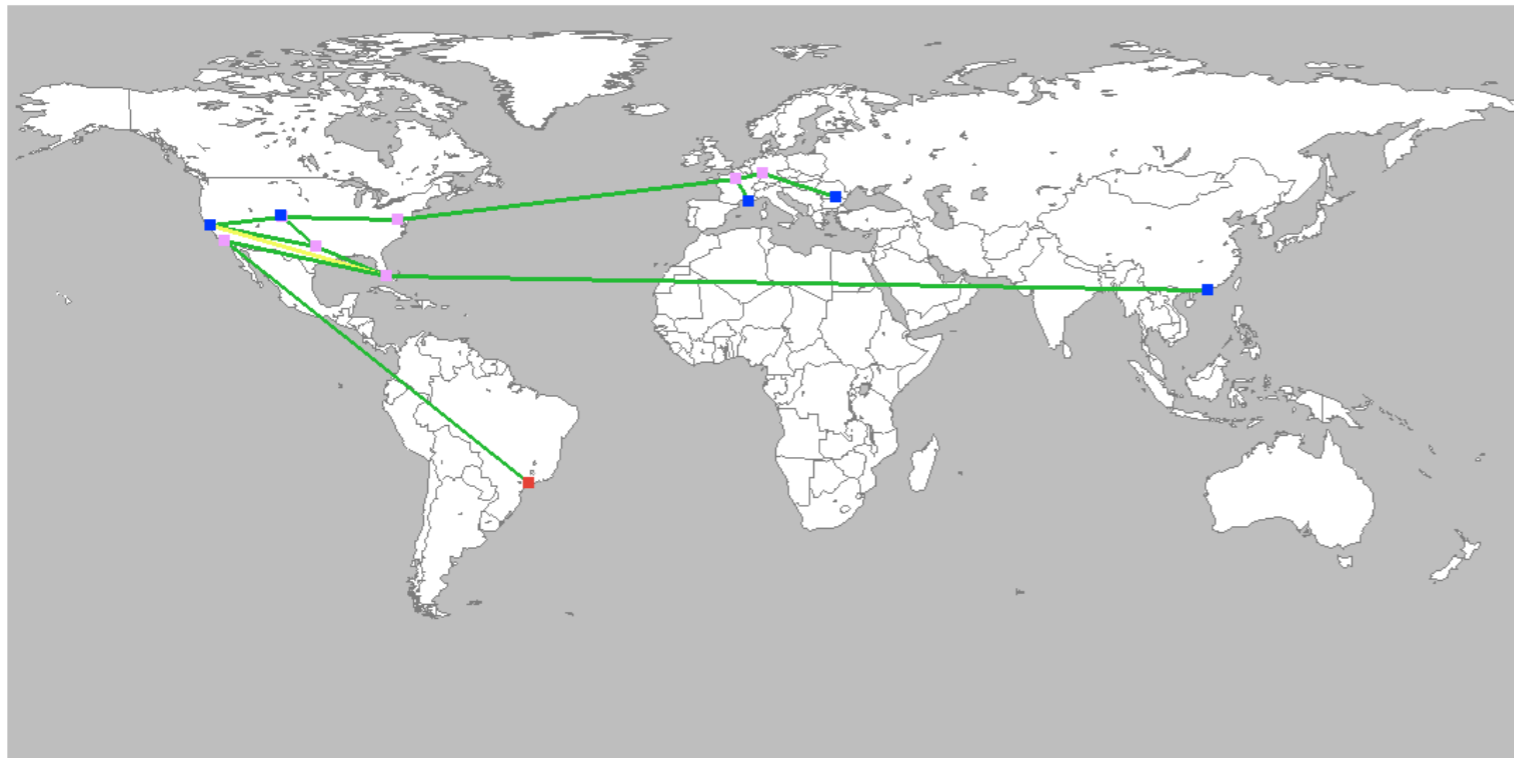
Vela

- interactive web interface to on-demand topology measurements from Ark monitors
 - currently, ping and traceroute (ICMP, TCP, UDP)
 - <http://www.caida.org/projects/ark/vela>

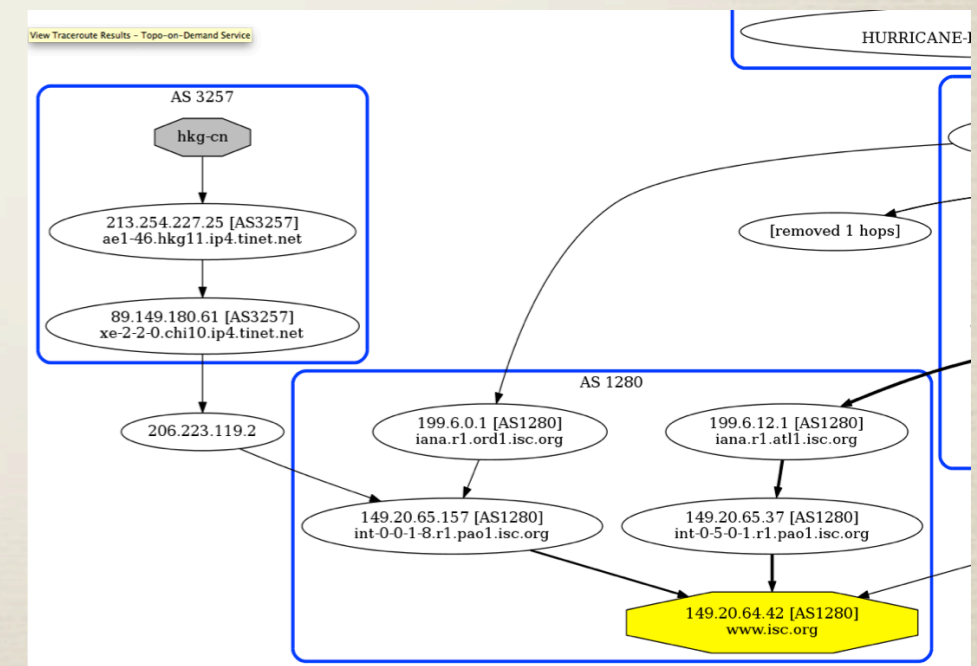
traceroute to sao2-br.ark.caida.org from *commercial network (6)* using ICMP

Traceroute Geo Map

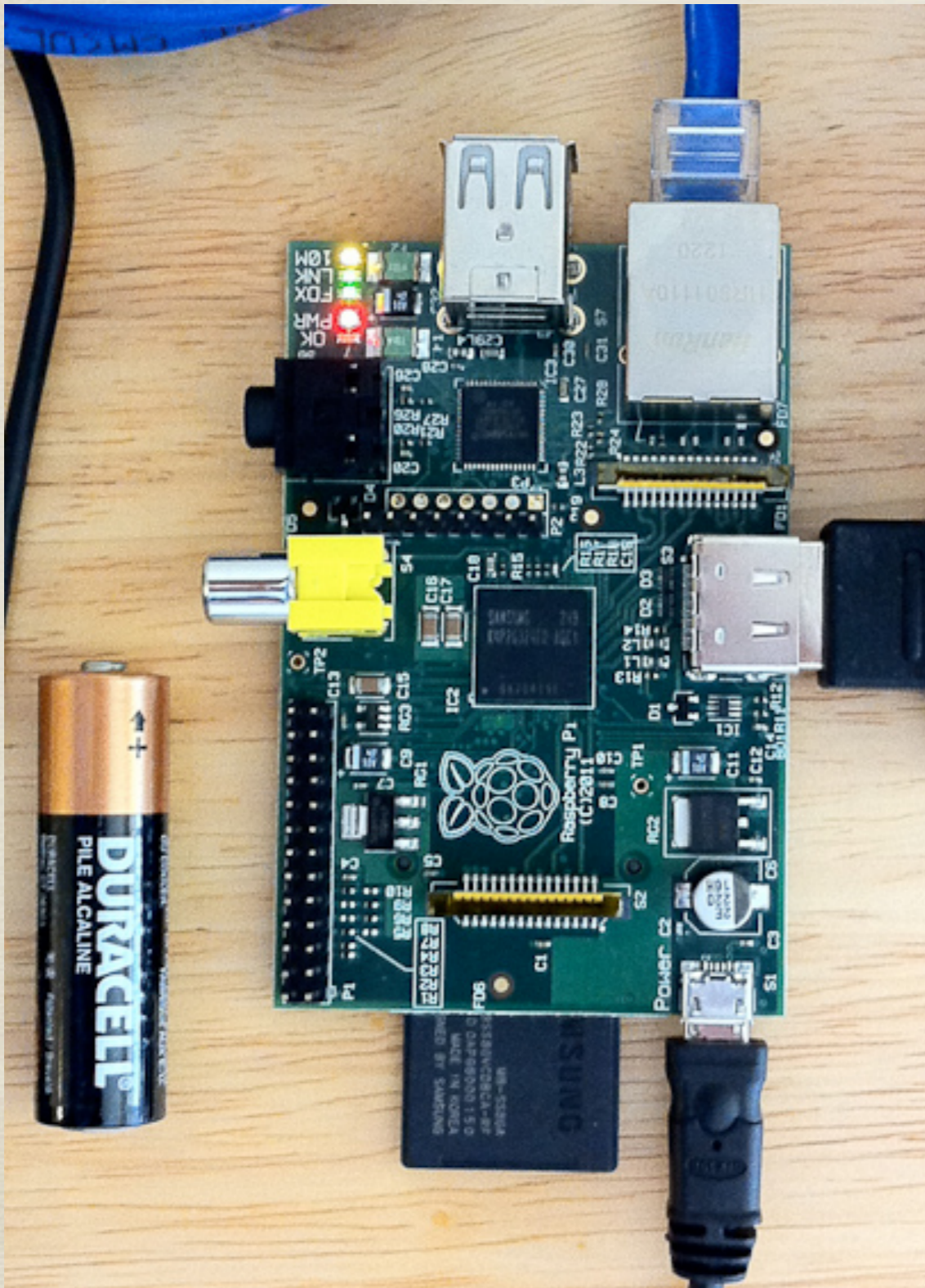
Node Color Key: ■ Source ■ Intermediate ■ Destination Link Color Key: — Direct — Indirect



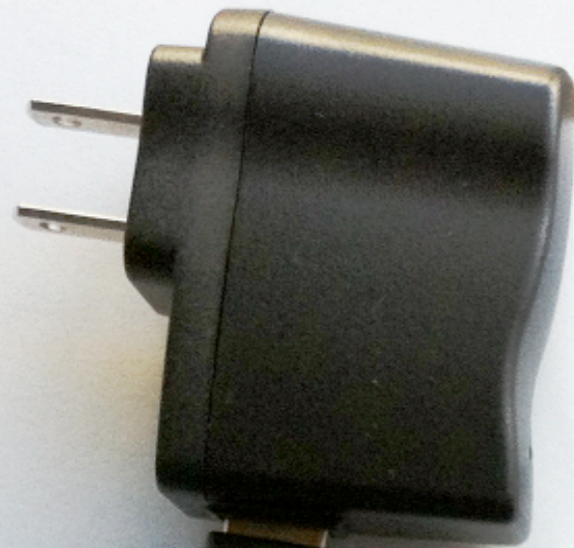
Other Views: [USA](#) | [South America](#) | [Europe](#) | [China](#) | [Japan](#)



Raspberry Pi



- 700MHz ARM CPU
- 512MB RAM
- 100 Mbps Ethernet
- 2 x USB 2.0
- SD card slot
- HDMI display output
- \$35 for bare board



standard
micro-USB
phone charger

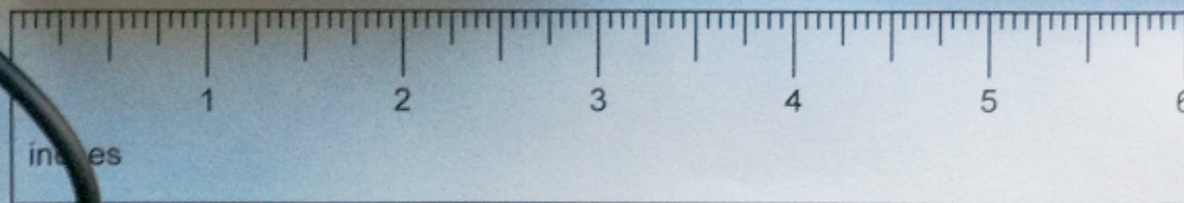


Archipelago network monitor



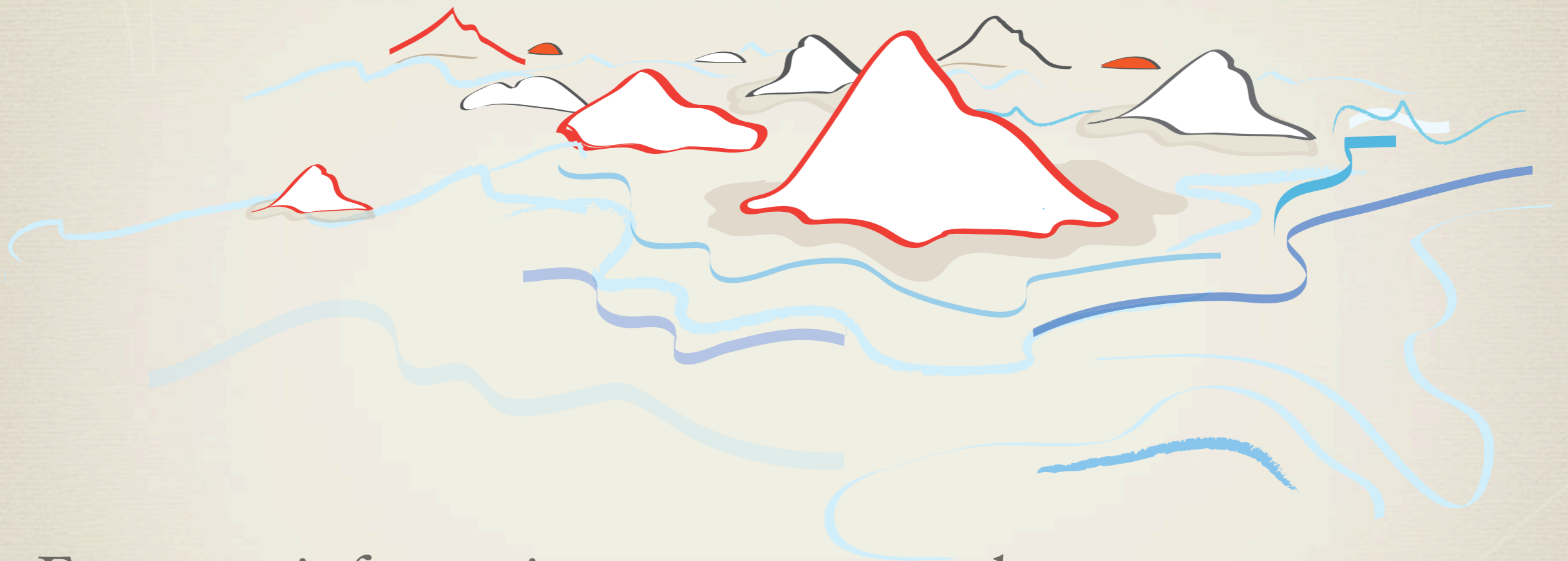
Raspberry Pi
+ SD card

HDMI to DVI-D
display adapter



~\$68 complete system

Thanks!



For more information or to request data:

www.caida.org/projects/ark

For questions, or to offer hosting: ark-info@caida.org