

RIPE Atlas

A “Real Big” Measurement Network

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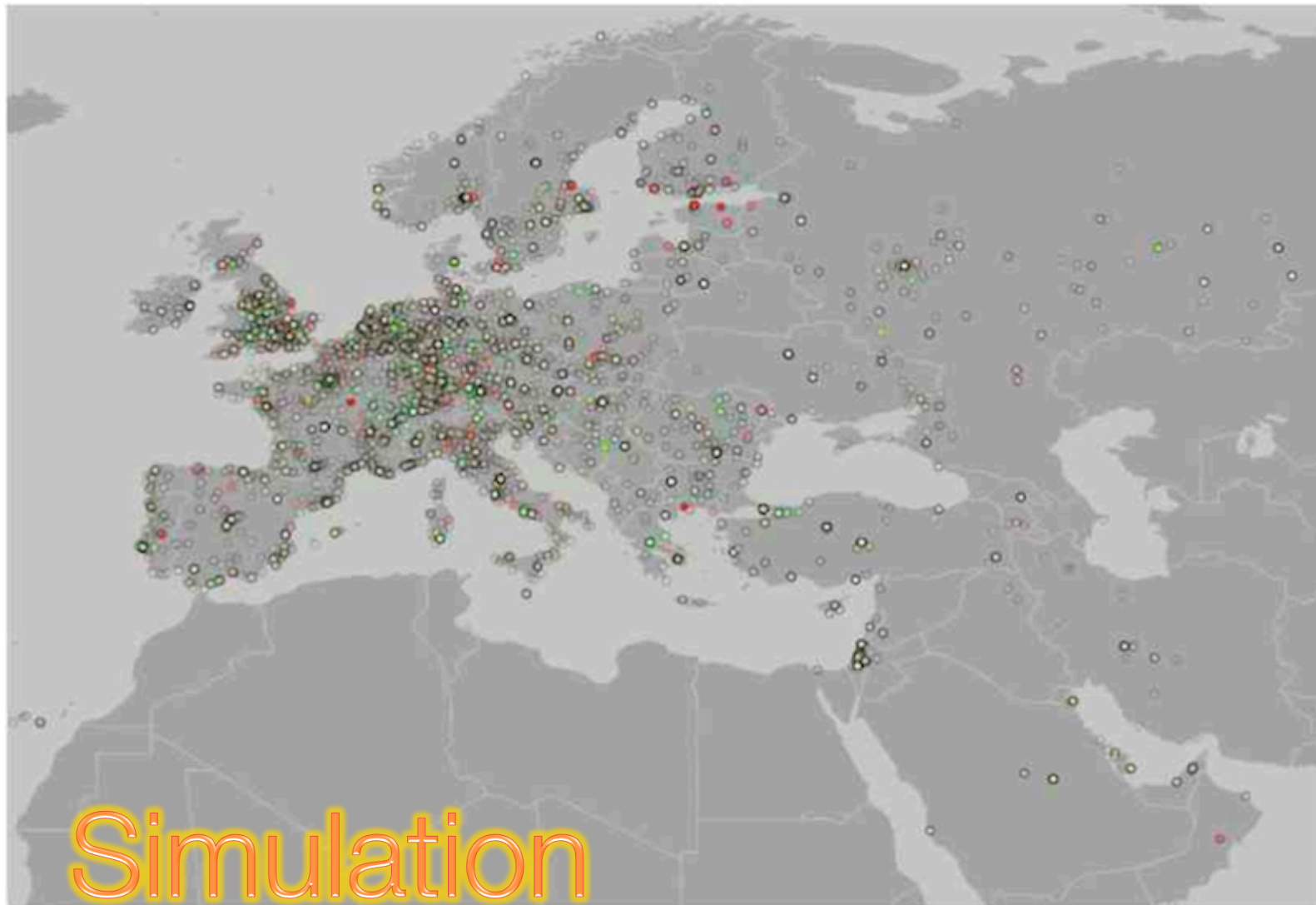


Size does matter!

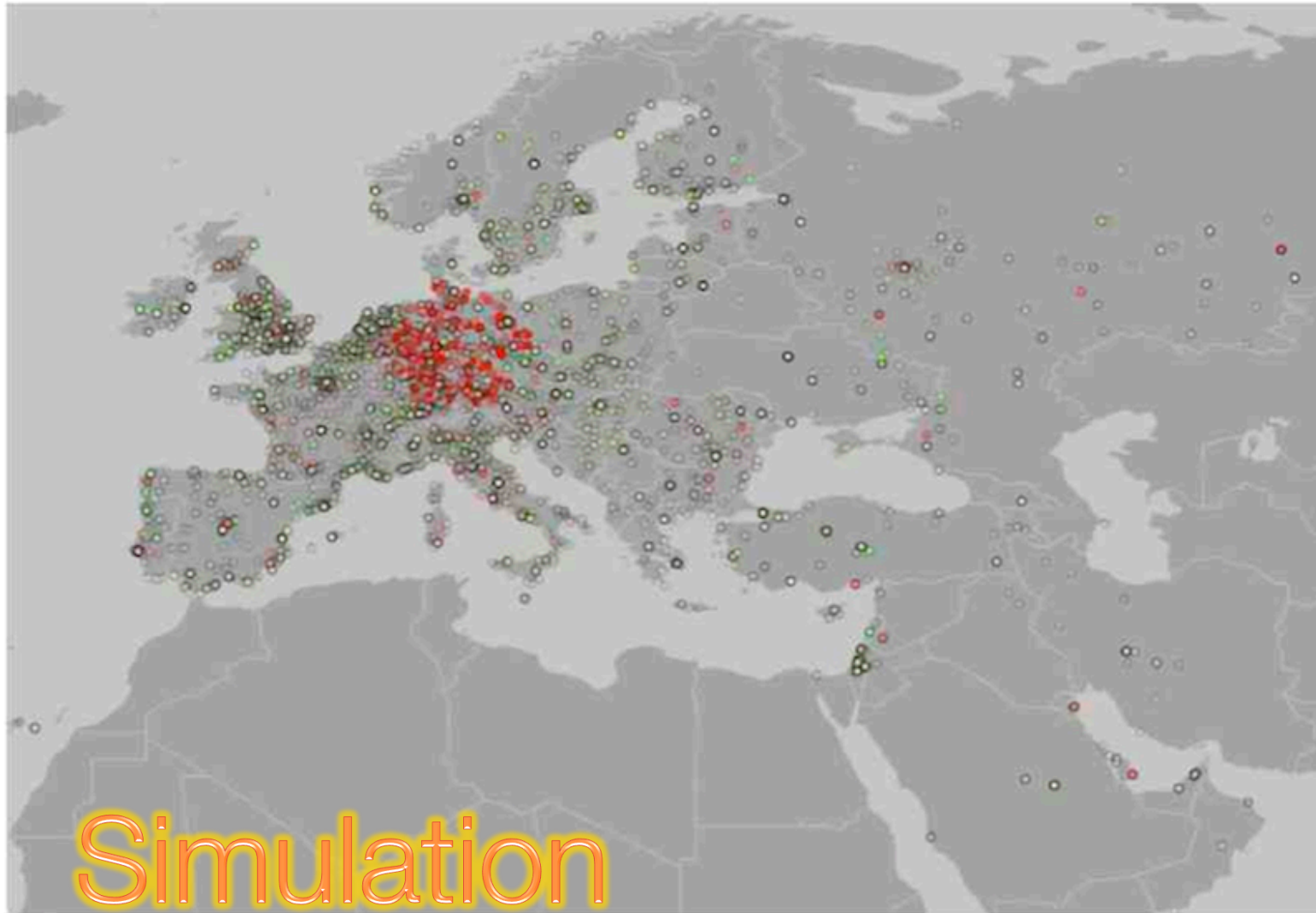
Why are we doing RIPE Atlas?

- TTM has ~100 measurement nodes
- The biggest measurement networks have 6-700 vantage points
- But the Internet has ~35.000 AS-es!
- Having more vantage points helps us to make better maps of the Internet

Intuition: 10k Probes

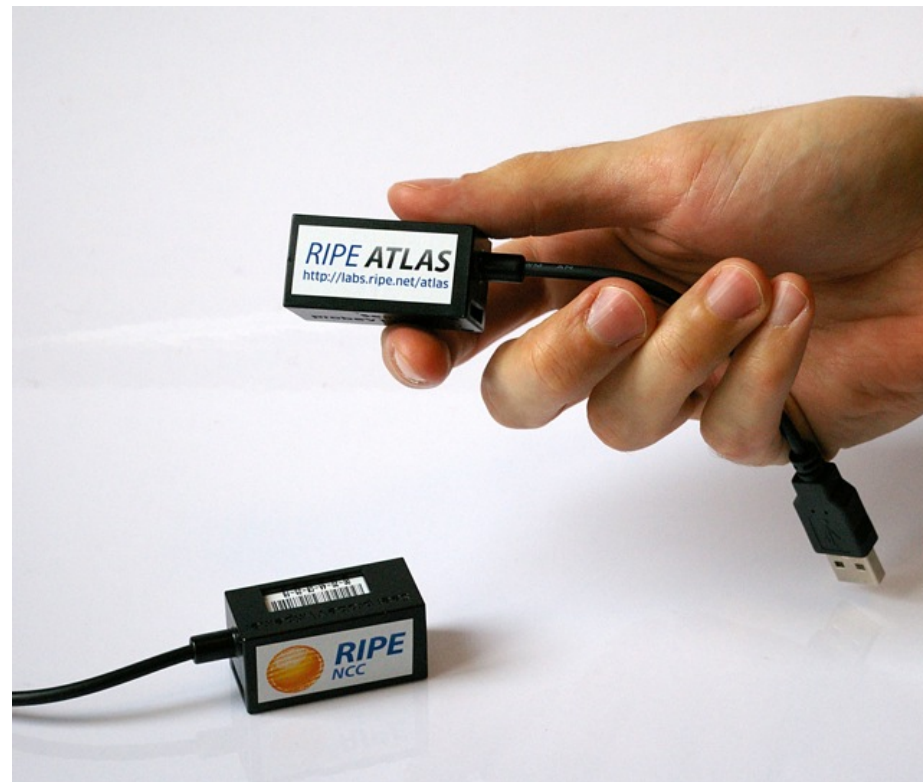


Intuition: 10k Probes & 1 AS



Intuition -> Plan

- For accurate maps we need more probes
- Deploying very many TTM boxes too expensive
- Smaller probes
- Easily deployable
- USB powered
- 24 x 365 capable



Ambitious Community Effort

Instead of building small, separate, individual & private infrastructures, build a huge common infrastructure that serves *both* the private goals *and* the community goals.

Ambitious Community Effort

- Individual Benefits
 - Less expensive than rolling your own
 - More vantage points available
 - More data available
- Community Benefits
 - Unprecedented situational awareness
 - Wealth of data, ...

Probe Capabilities

- Version 0
 - Ping to fixed targets (IPv4 & IPv6) ✓
 - Traceroute to 1st two upstream hops ✓
- Version 1
 - Ping & Traceroute to variable targets
 - DNS queries to variable targets
- Version 2
 - Your ideas ?
- Upgrades are automatic

Version 0

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NOT a Simulation



Probe Deployments



Probe Deployments



NOT a Simulation

Get involved!

Become a probe host !

First go to atlas.ripe.net and register !

Questions?
atlas.ripe.net

