

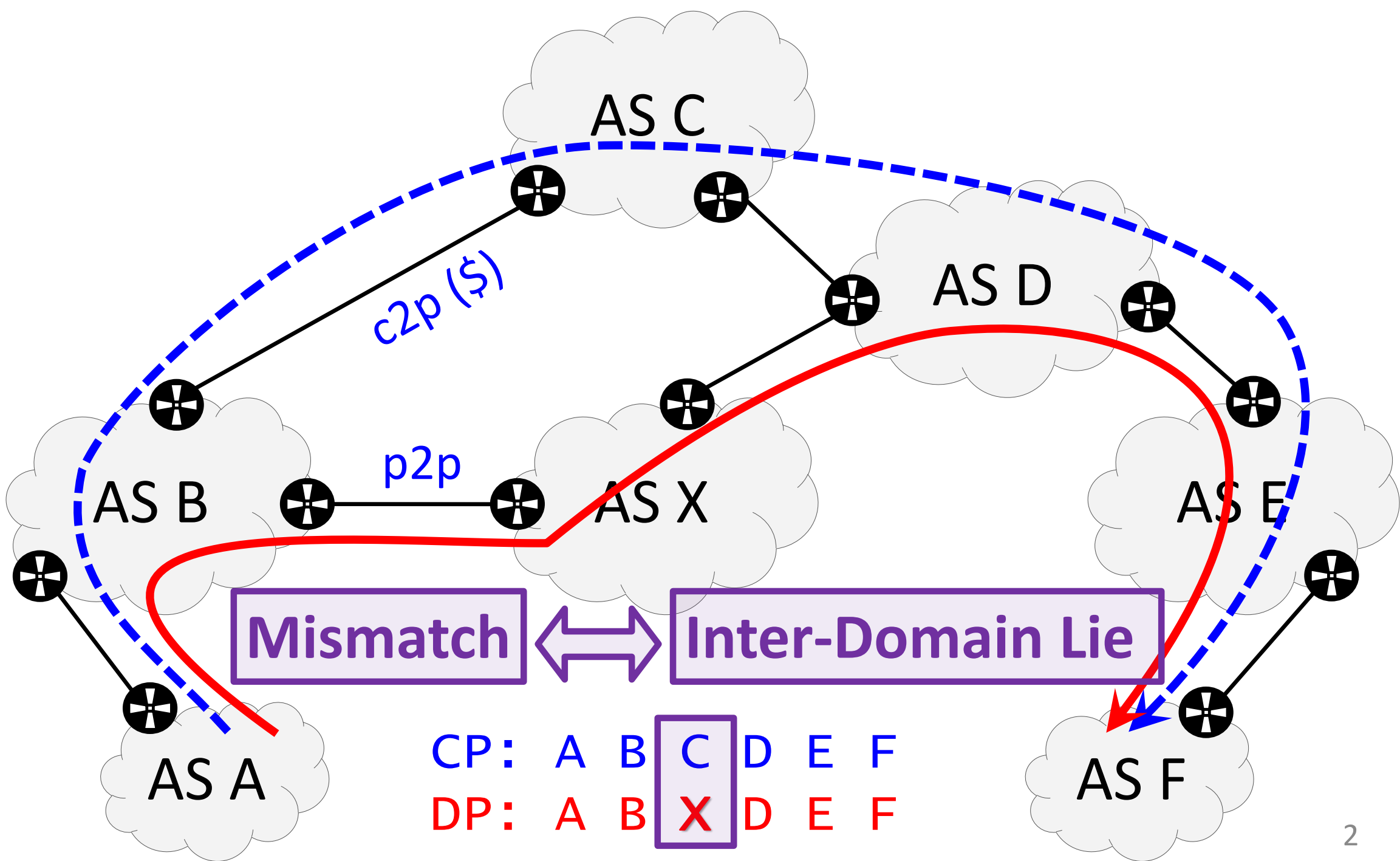
# Filtering the Noise to Reveal Inter-Domain Lies

Based on TMA 2019 Paper - Focus on Infrastructure

Julian M. Del Fiore

Pascal Merindol, Valerio Persico, Cristel Pelsser, Antonio Pescape

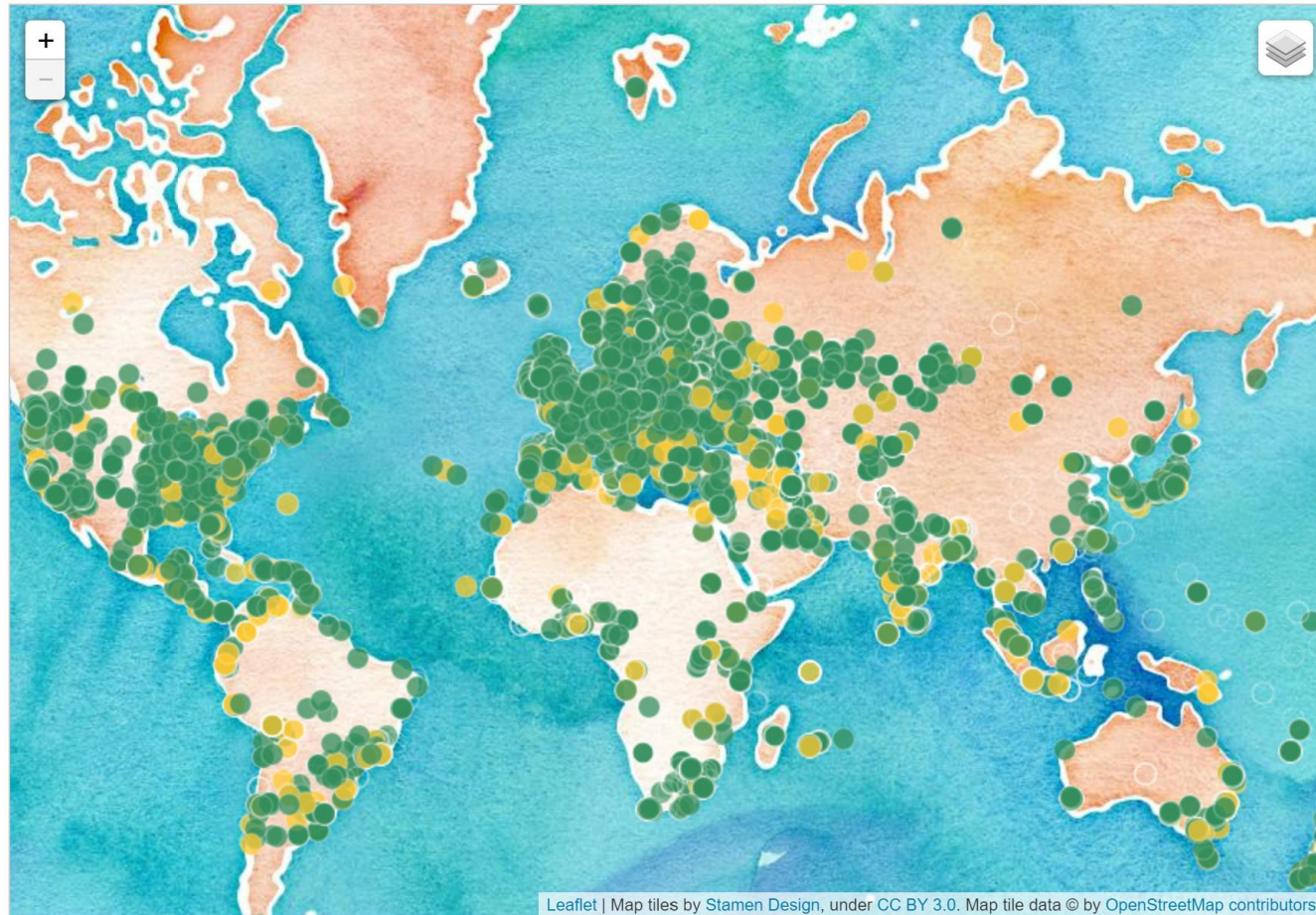




# Infrastructure?...That's easy!

RIPE ATLAS: 11k++ probes (02/2020)

<https://atlas.ripe.net/results/maps/network-coverage/>



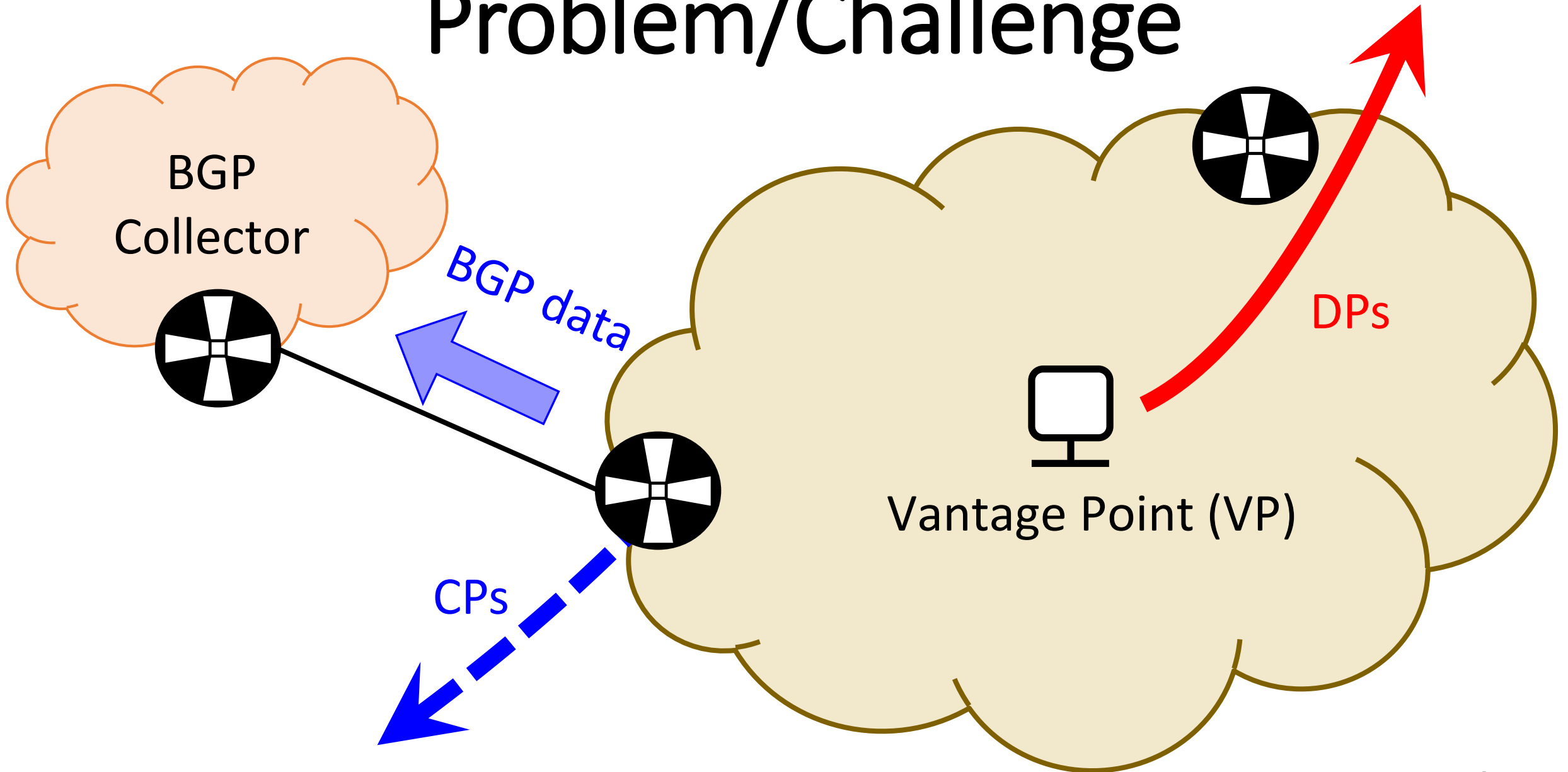
Leaflet | Map tiles by Stamen Design, under CC BY 3.0. Map tile data © by OpenStreetMap contributors.

Routeviews: 31 collectors

<http://www.routeviews.org/routeviews/index.php/map/>

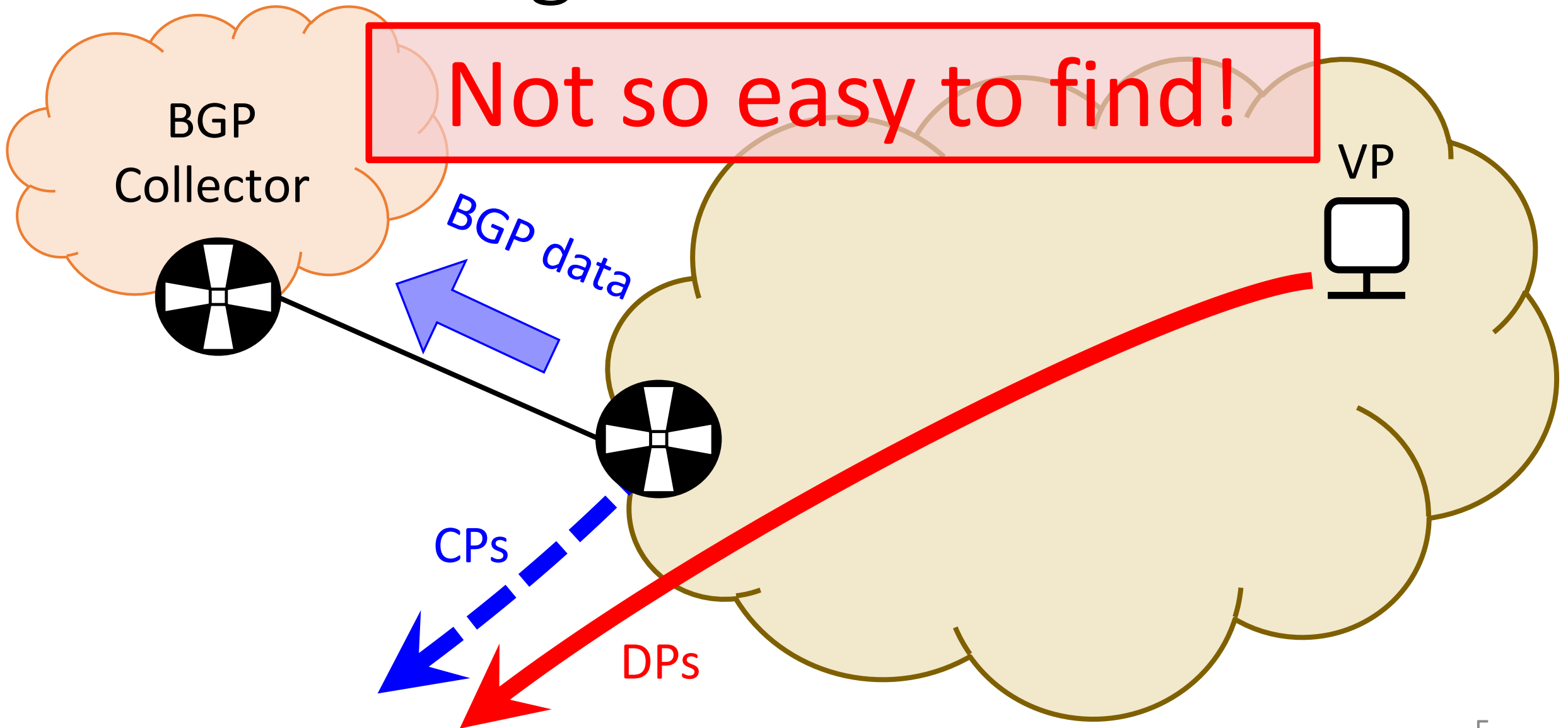


# Problem/Challenge

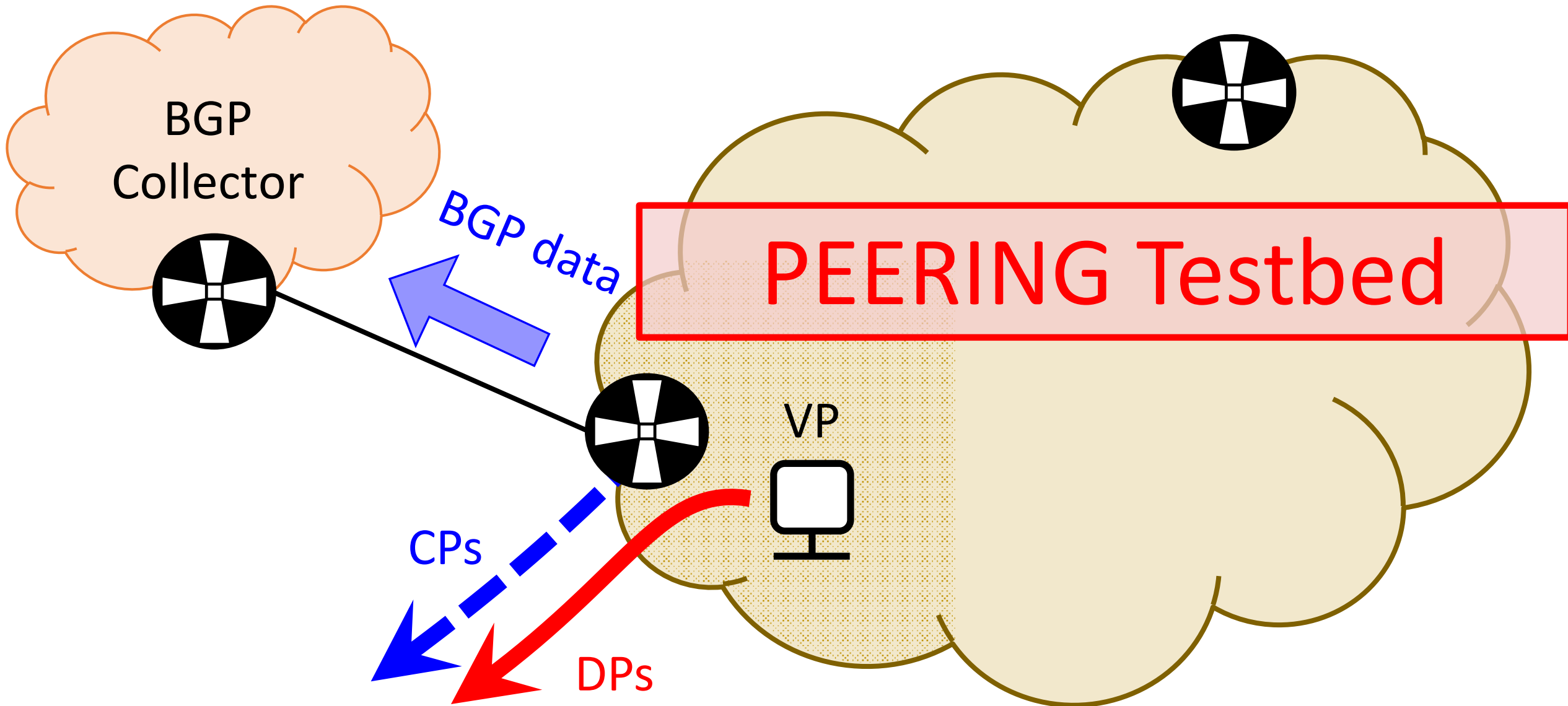


# Single-homed Network

Not so easy to find!



# Co-located VPs





# Dataset

**DPs: 80K destinations**

**CPs: BGP dumps every 2h**

**6 VPs in PEERING**

~ 10/20 days

**2 Additional VPs**

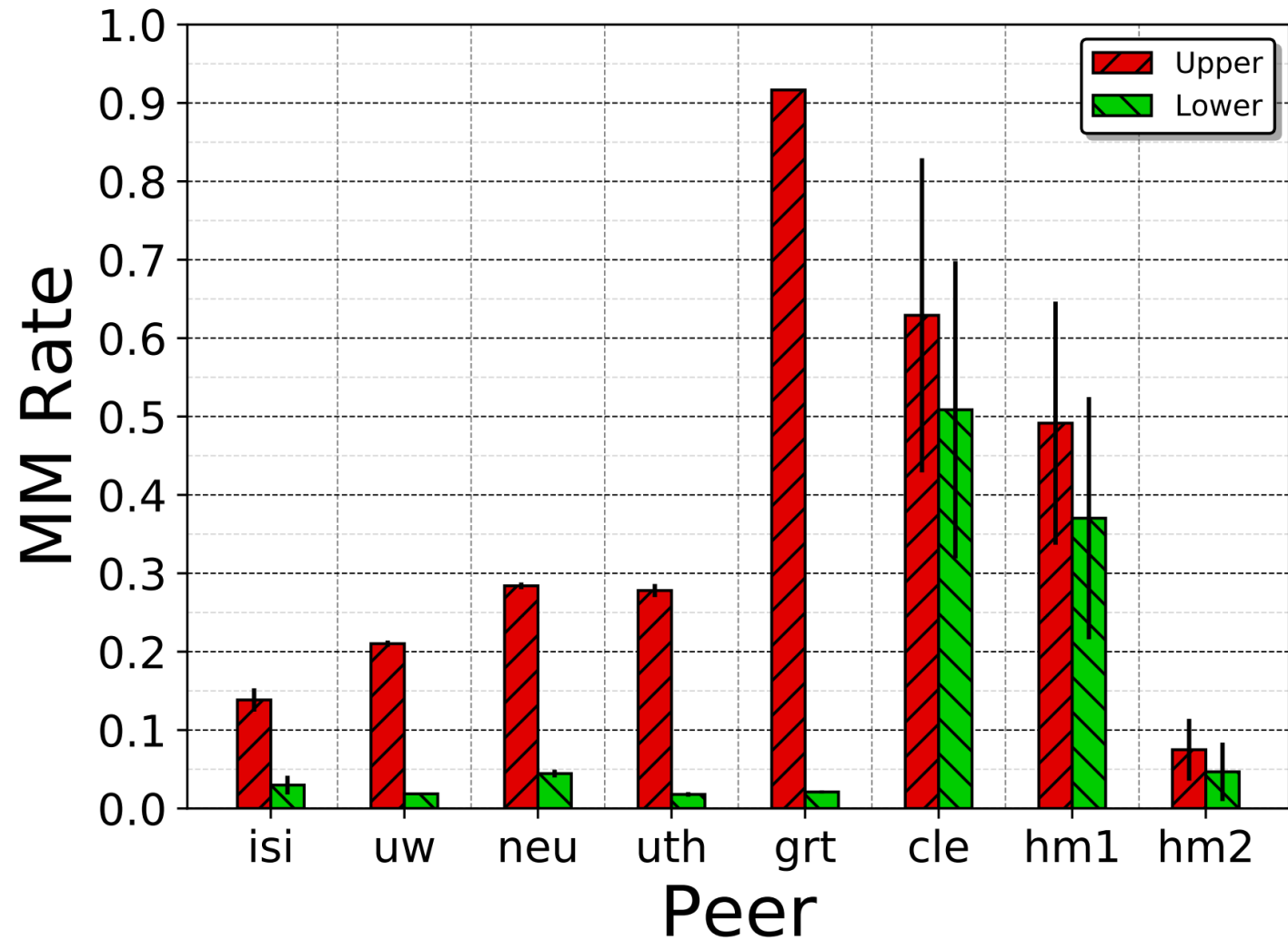
~ 8 months

**Currently**

~ not running

~ undisclosed (soon)

# Results



# Conclusions

## Infrastructure

- Need for co-located VPs
- Peering Testbed (few full RIBs)
- Look for more co-located VPs

## Results

- Few lies, but not zero!
- Some exceptions with high MM rate
- Look closer at the remaining mismatches



**Thanks! 😊**

**Questions?**