# Filtering the Noise to Reveal Inter-Domain Lies

Based on TMA 2019 Paper - Focus on Infrastructure

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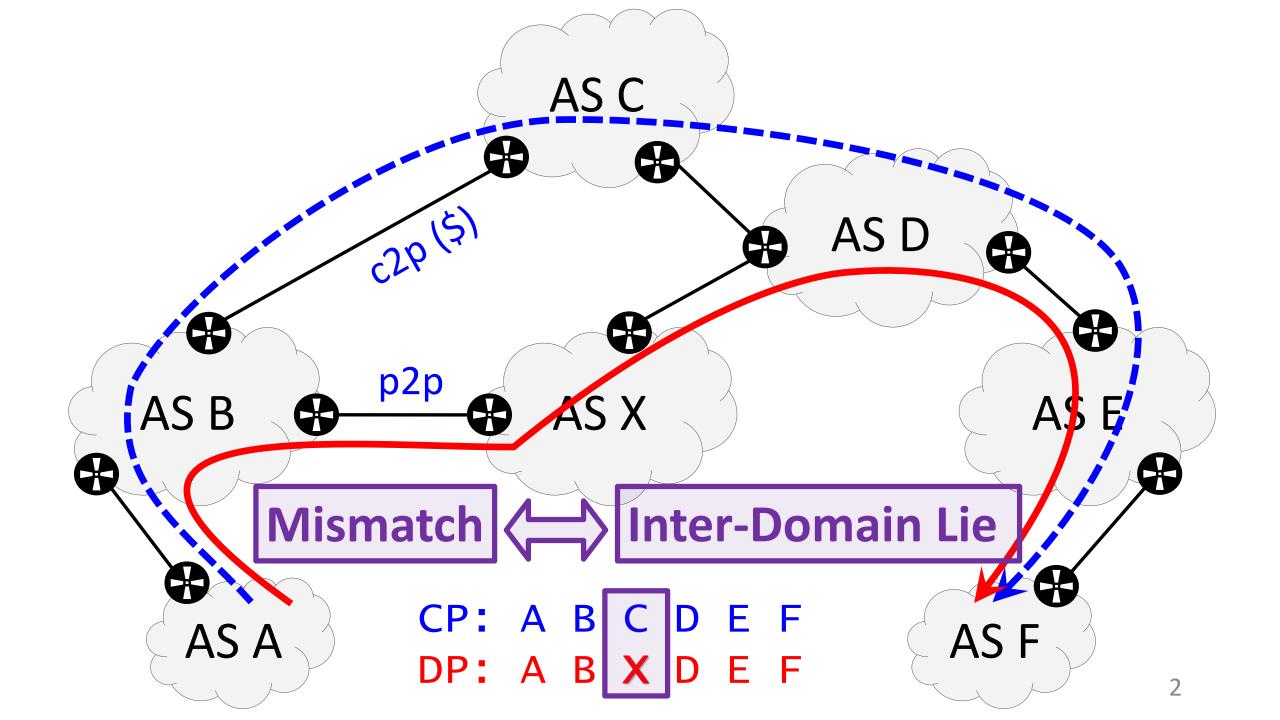
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# Infrastructure?...That's easy!

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

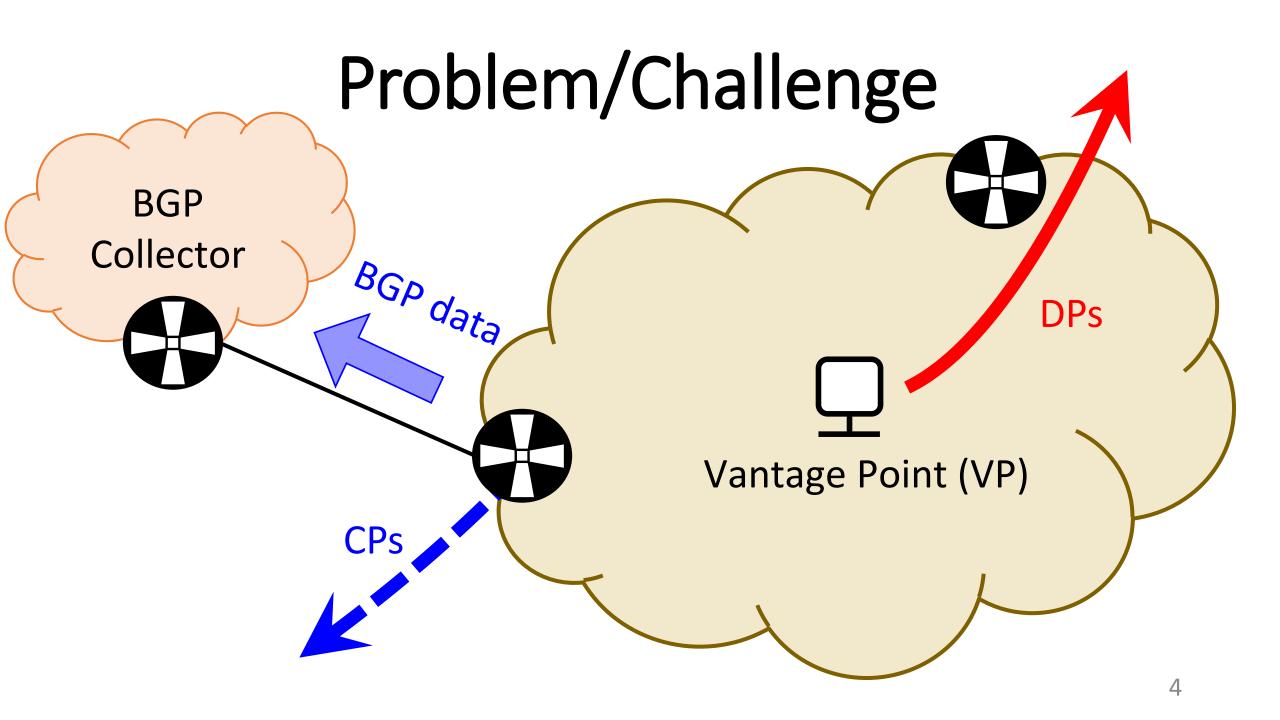
https://atlas.ripe.net/results/maps/network-coverage/

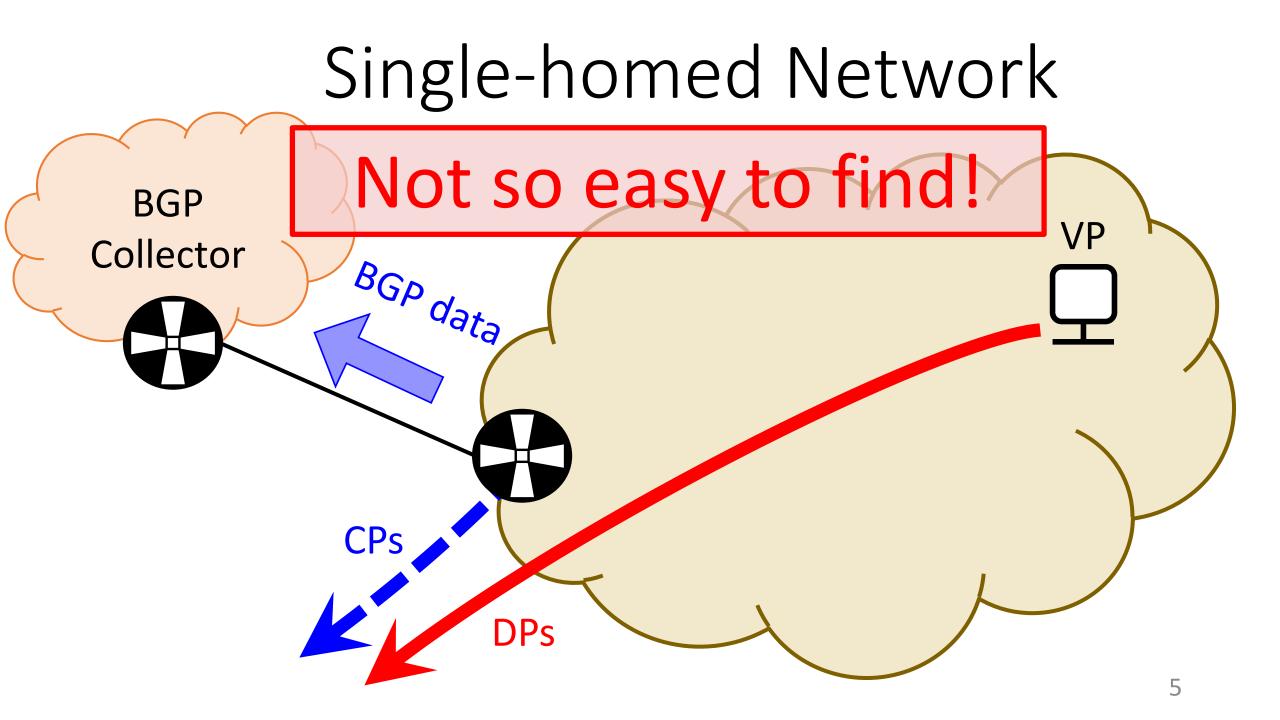


#### Routeviews: 31 collectors

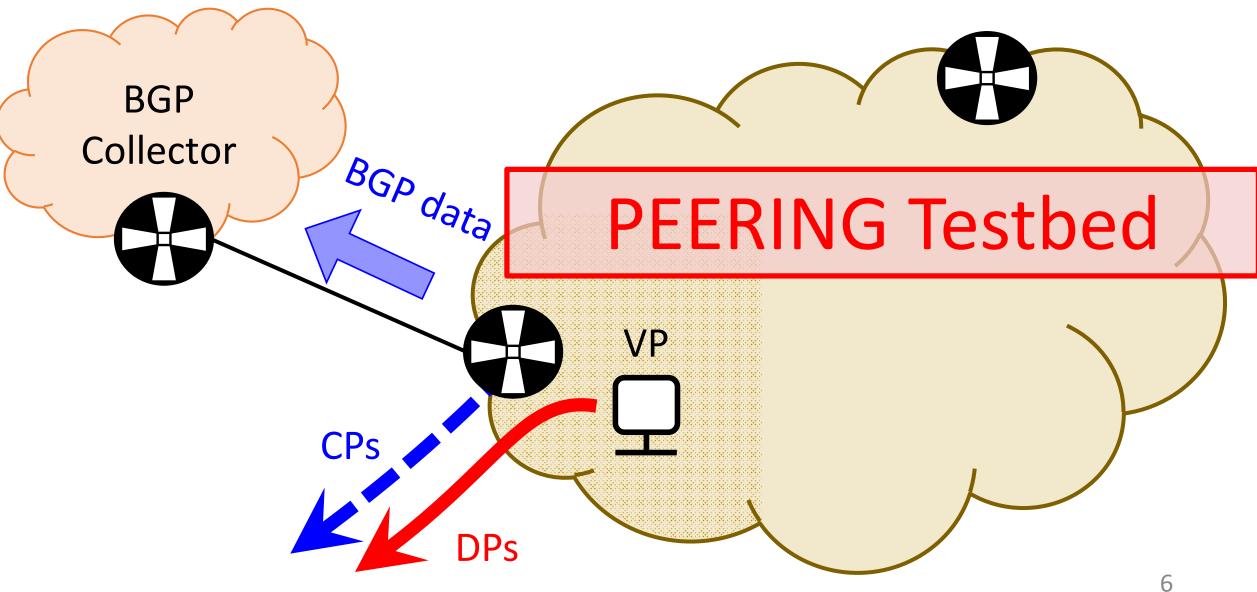
http://www.routeviews.org/routeviews/index.php/map/







# **Co-located VPs**



### Dataset

## Results

Upper

\_ower

hm2

**DPs: 80K destinations** 1.0 0.9 **CPs:** BGP dumps every 2h 0.8 0.7 Rate **6 VPs in PEERING** 0.6 ~ 10/20 days 0.5  $\sum_{0.4}$ **2 Additional VPs** 0.3 ~ 8 months 0.2 Currently 0.1 0.0 ~ not running hm1 isi uth grt cle uw neu Peer ~ undisclosed (soon)

# 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?**