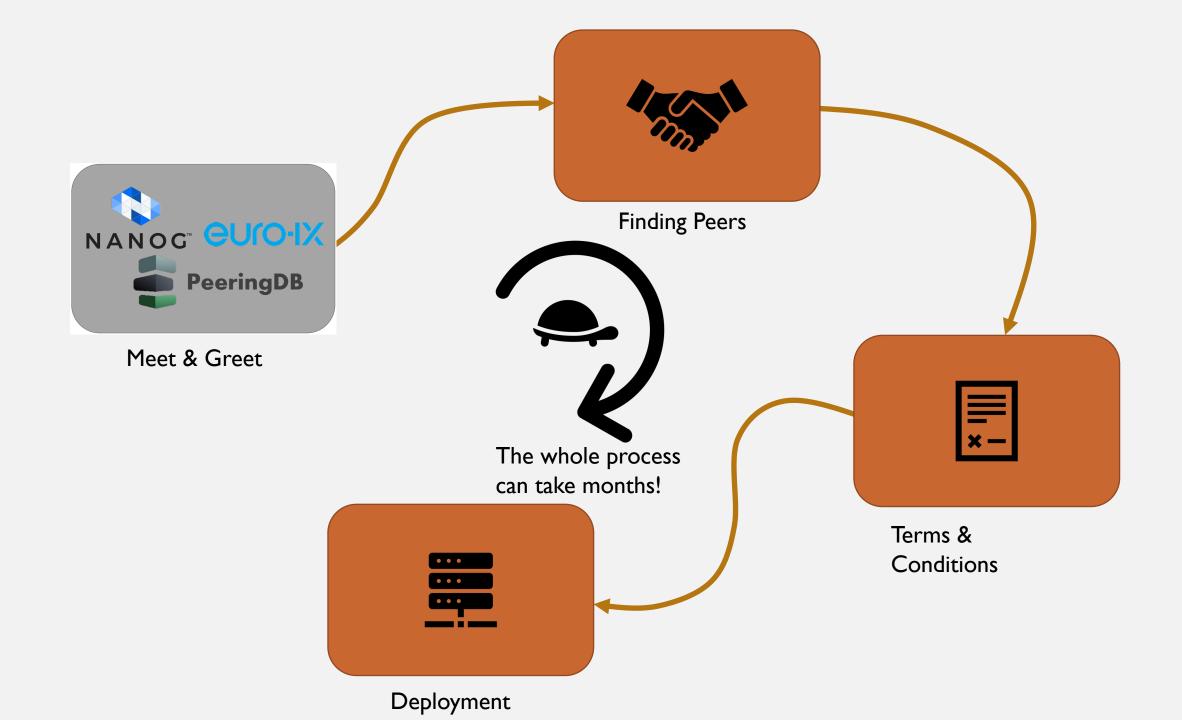
META-PEERING: TOWARDS AUTOMATED ISP PEER SELECTION

Prasun Dey Shahzeb Mustafa Murat Yuksel

University of Central Florida











Missed Opportunities

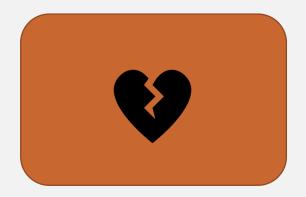


Disagreements



Sub-Optimal Relations

Post-Peering Phase



De-Peering

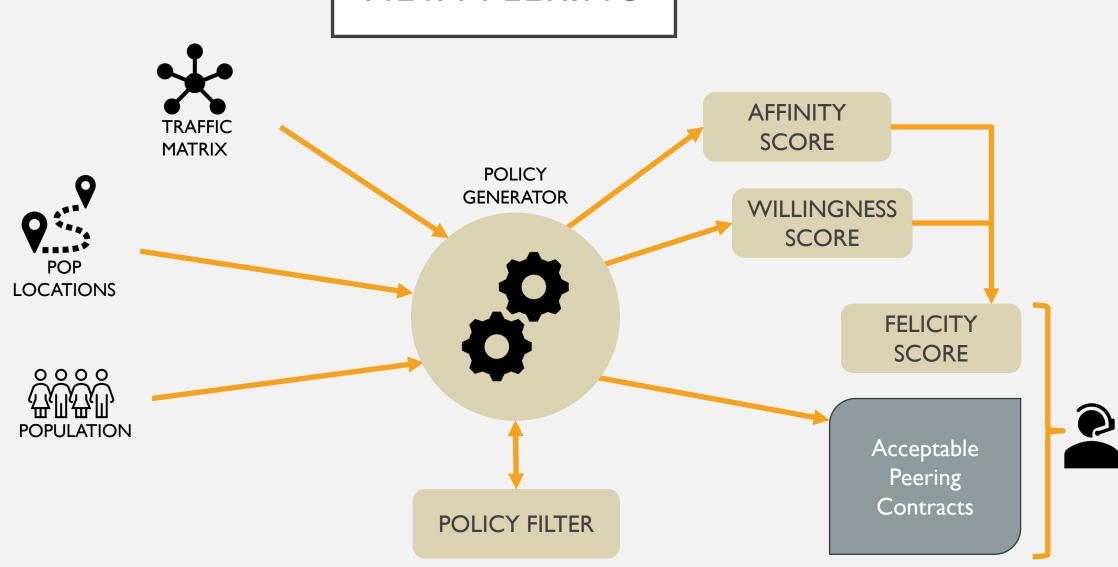


Under-utilized resources

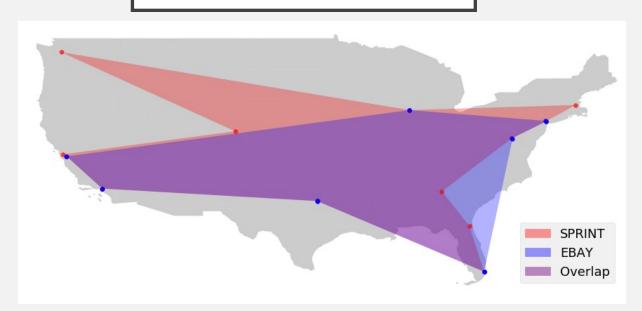


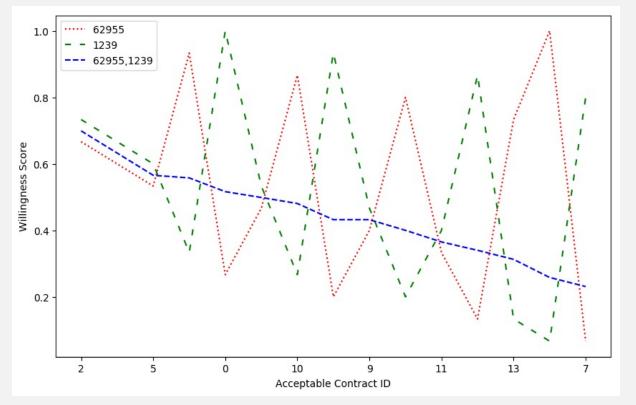
Financial Losses

META-PEERING



SPRINT(1239) -EBAY(62955)

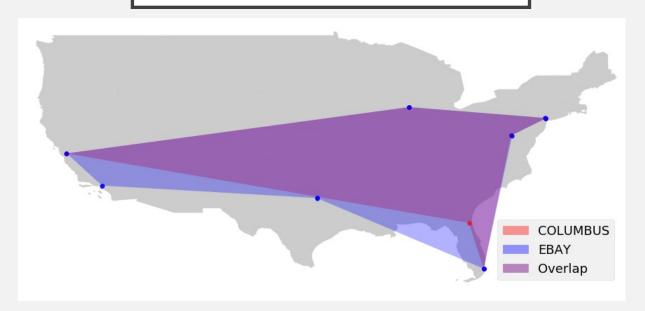


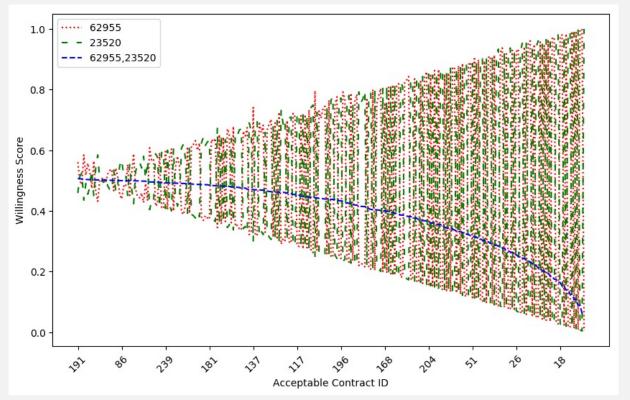


Name	PoP location	PeeringDB link
Equinix Los Angeles (LA1)	Los Angeles, CA	www.peeringdb/fac/8
Equinix Chicago (CH1/CH2/CH4)	Chicago, IL	www.peeringdb/fac/7

PEERING RECOMMENDED

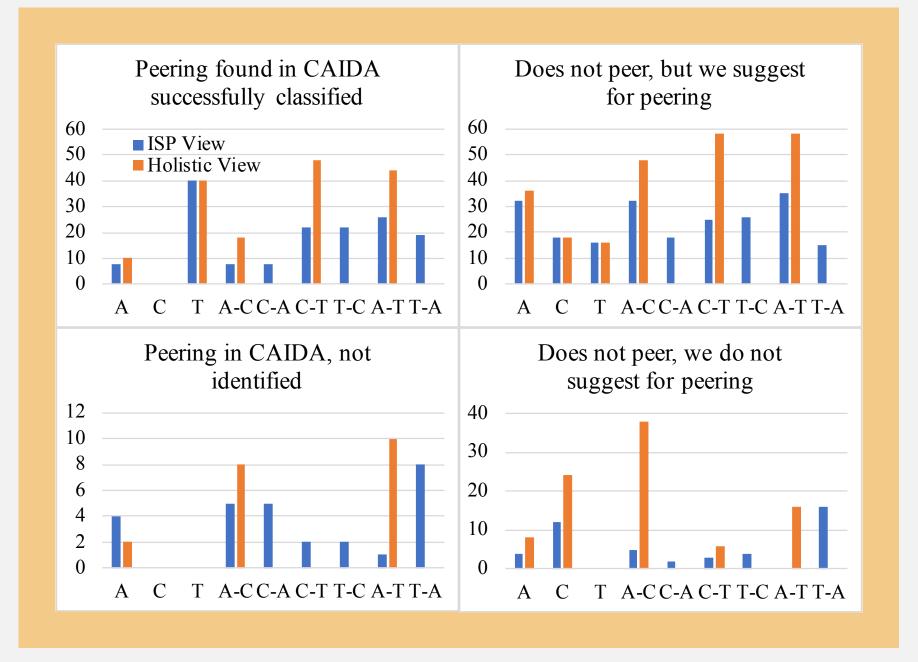
COLUMBUS (23520)-EBAY(62955)





Name	PoP location	PeeringDB link
Equinix San Jose (SV1/5/10)	San Jose, CA	www.peeringdb/fac/6
Equinix Ashburn	Ashburn, VA	www.peeringdb/ix/1

PEERING NOT RECOMMENDED



DISCUSSION

- We envision the ISP peering process to be well integrated and automated.
- We are working on extending this model that uses a more complex feature set for better predictions.
- In particular, we are testing a Random Forests classifier that uses different features extracted from PeeringDB and CAIDA data-sets.
- We envision Meta-Peering to be an end-to-end platform which automates pre and post peering phases.

QUESTIONS?