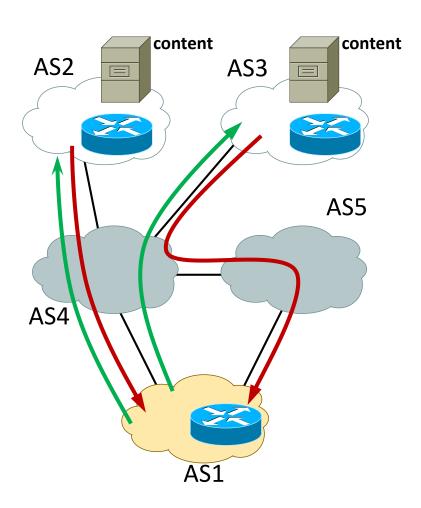
Inter-ALTO A second attempt?

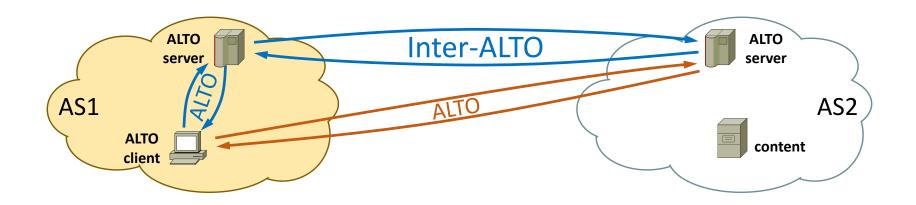
Piotr Wydrych <piotr.wydrych@agh.edu.pl>

Motivation: Route Asymmetry



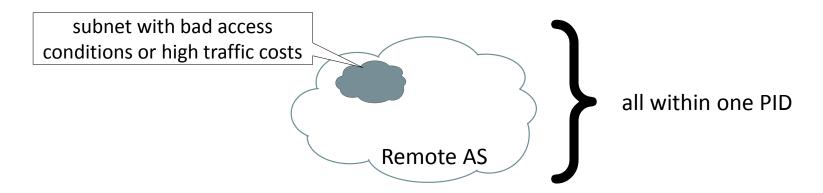
- Local topology information source knows only uplink path
- If AS1's cost maps are built based on as-hops, endpoints in AS2 & AS3 are equal
- To take bidi traffic into account, downlink path has to be known
 - or at least ingress link + № of AS hops

What's the Difference?



- Pure ALTO client receives effect of applying AS2's policies to AS2's routing information
- Inter-ALTO client receives effect of applying AS1's policies to AS1's and AS2's merged routing information

Motivation: Remote ISP's Pref.



- Local topology information source cannot differentiate Remote AS's subnets
- Network and cost maps built with inter-ALTO may reflect fact that not all endpoints within ISP are equal

Next steps

- Use-case determination
 - [I-D.dulinski-alto-inter-problem-statement-01]
 - Partitioned networks
- Requirements
 - Mandatory information being exchanged
 - Authentication, authorization, confidentiality
 - Incremental updates
- Don't reinvent the wheel
 - Reuse protocols & formats that ALTO servers speak