Euro-IX Data Export Schema

Nick Hilliard <nick@inex.ie> Elisa Jasinska <elisa@bigwaveit.org>

Rationale - IXP View

- Many IXPs export participant data
- Most IXPs exported the same sort of data
- Every IXP had their own different schema
- Most of these formats are based on CSV
- CSV sucks

Rationale - Participant View

- Everyone has different formats
- CSV sucks
- Some IXPs don't export structured data
- Screen scraping necessary sometimes
- Cost efficiency requires increased automation

JSON Export Schema

- Basic IXP information, contact lists, etc
- VLANs
- Switches
- Addressing information
- Member info: contact details, ports, addressing

JSON Export Schema

- Released v0.3 at RIPE69 in London
- Presented at RIPE69 Connect Working Group
- Deployed at 8 IXPs after 1 week
- Three separate code implementations

Feedback

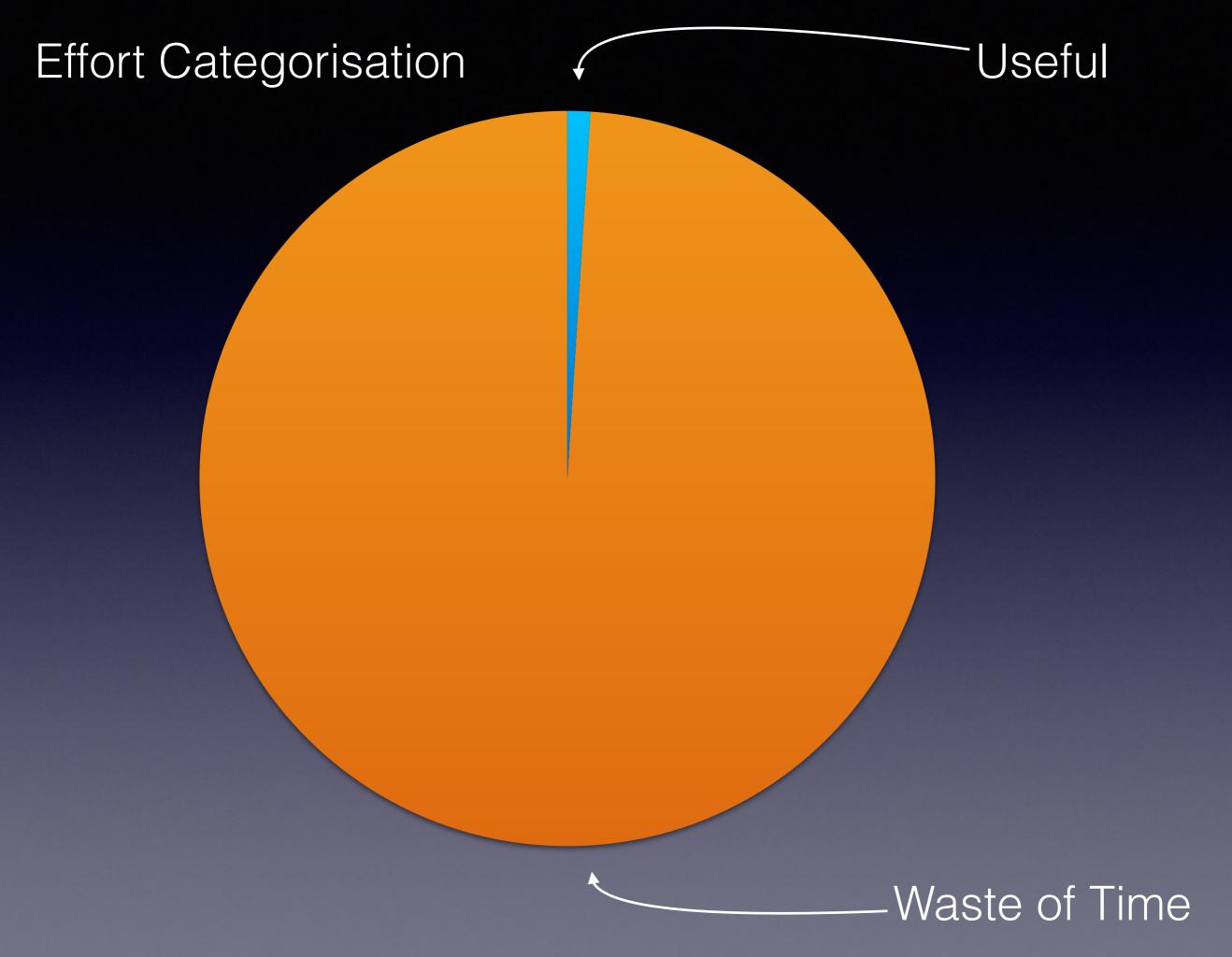
- "We need to publish the addresses of our RS's"
- "Can we put MAC addresses in there?"
- "How do we handle multiple IXP infrastructures?"
- "More contact details"
- Stats?

JSON Schema v0.4

- Support added for multiple IXPs
- Adds member_list.member_type atom:
 - ["peering","ixp","routeserver","probono","other"]
- mac_addresses list added to vlan_list
- Added emergency contact details, stats_api
- Some data structure reorganisation
- Released on github in February 2015

Grand Vision

- https://euro-ix.net/tools/asn_search
- https://euro-ix.net/tools/peering_matrix
- 8312 ASNs presented at Euro-IX IXPs, 4285 unique
- 2.2m potential peering sessions
- 20 minutes per peering session: 350 FTE years
- Figures exclude route servers, selective peering, interconnection politics, etc

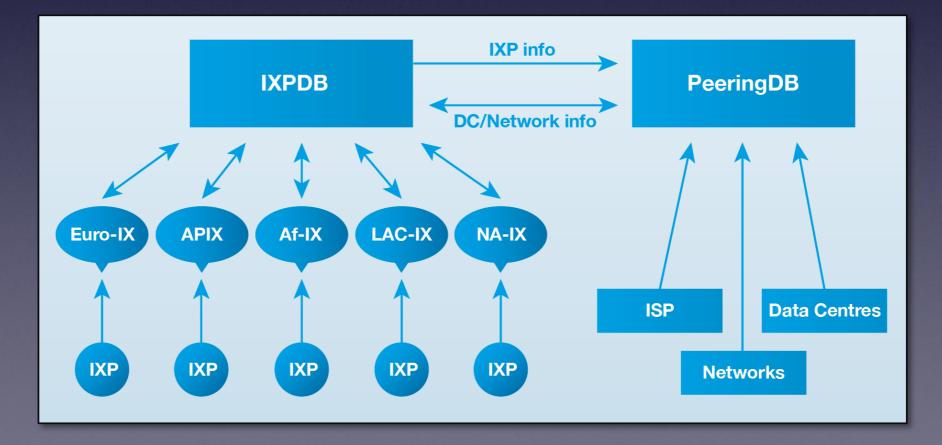


End User Viewpoint

- Easily available peering automation
 - Looking at code libraries
 - For example: python, php, perl

IXP Viewpoint

- Integration with PeeringDB 2.0
 - PeeringDB 2.0 is due any day now, lol
- Solves ixp->euro-ix data export issue



github.com/euro-ix/json-schemas

Thanks!

... but any questions?

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