



Information Services



Information services

- Providing access to active and passive measurements
- Covering 80+ sites around the globe
- 10+ years of operation
- More than 1.5 TB of raw data



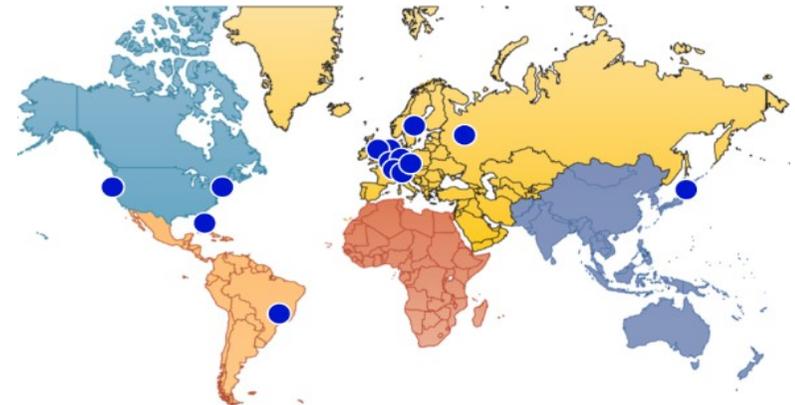
Measurement Network

Active Measurements

- 75 Test Traffic Boxes
- Located at commercial ISPs and research institutions
- Full Mesh

Passive Measurements

- 15 Remote Route Collectors
- Located at major Internet Exchanges
- BGP Routing Information



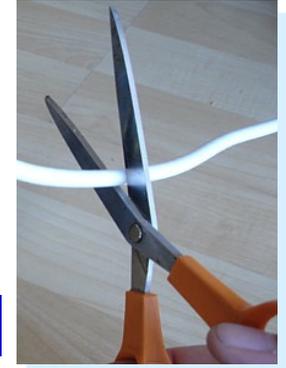
What can you do with it?



Diagnose network problems



Monitor network performance



Analyse critical events

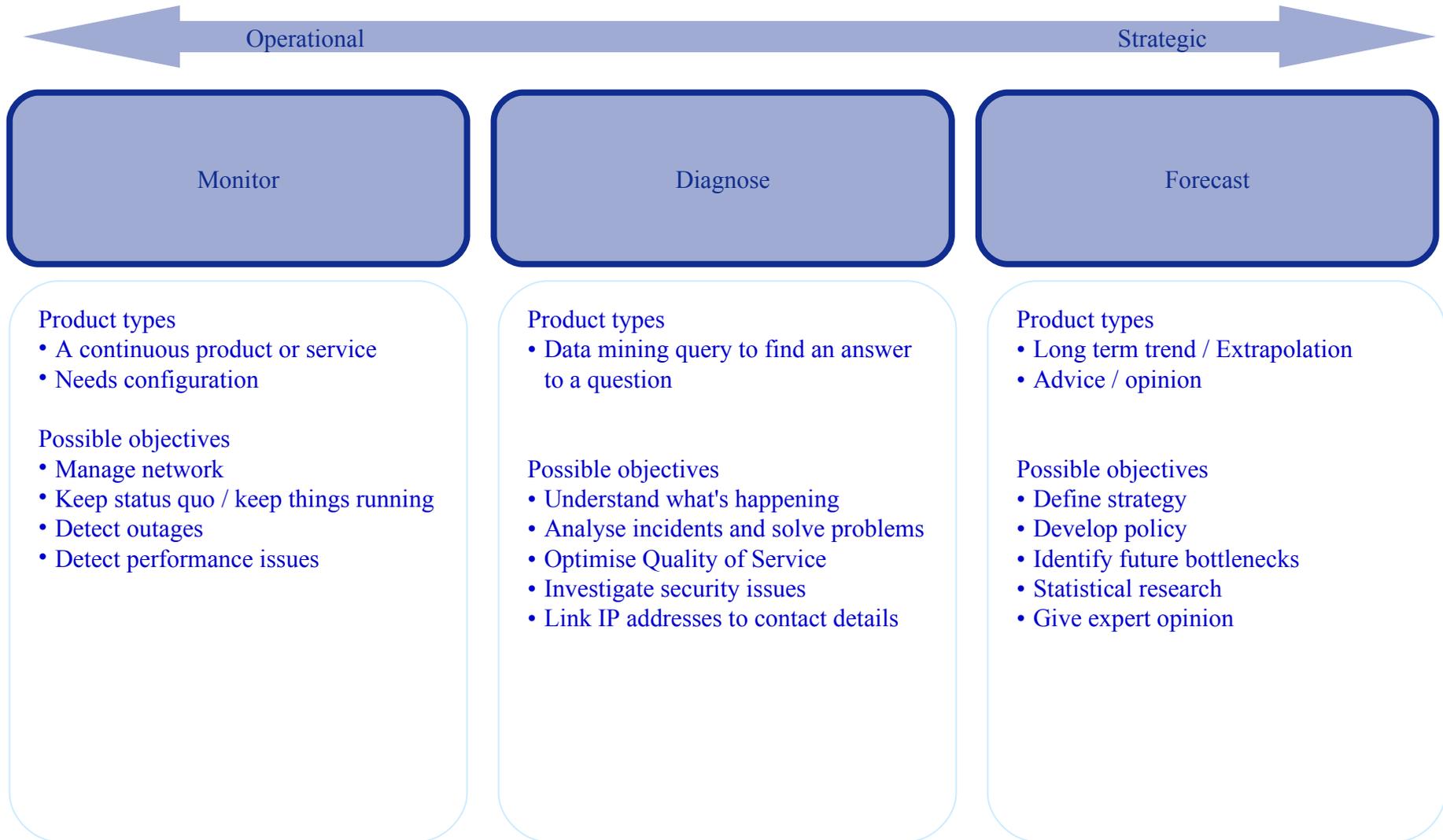
Optimise routing



Existing IS Portfolio



What our users want to achieve



What RIPE NCC IS can offer

Level of added value



Analysis Services

Product types

- Hypothesis, expert opinion, vision, interpretation
- Peer review
- Trend research and projections
- Publications (benchmarks, reports, white papers, etc.)
- Social media (blog)

Product details

- Frequency (recurring or ad-hoc)
- Why this was created (objective / purpose)
- Release date
- Reliability of data sources
- Disclaimer
- Methodology (how it was created)

Tools

Product types

- Intuitive interface (UI or GUI or API)
- Visualisation or data table
- Queries or configuration
- Interactive or non-interactive

Product details

- Input that is required from end-user
- Output to graph or table
- Delay / time gap
- Purpose (supported by use cases)
- Who can use it (members-only / everybody)
- Procedure / documentation
- Reference to the data set it is using

Data sets

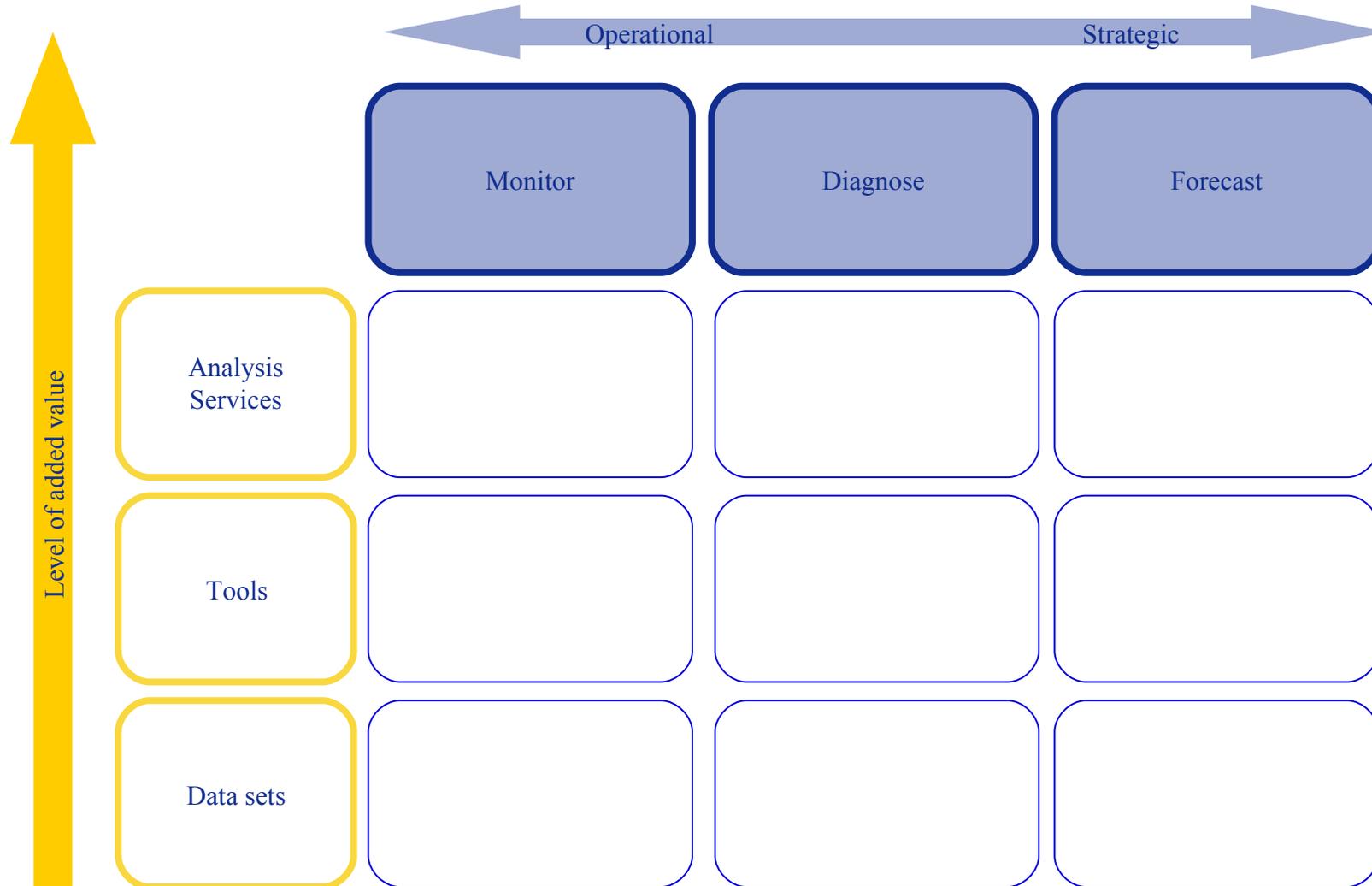
Product types

- RIPE NCC data and/or 3rd party data
- Real-time data and/or historical data
- Active or passive measurements

Product details

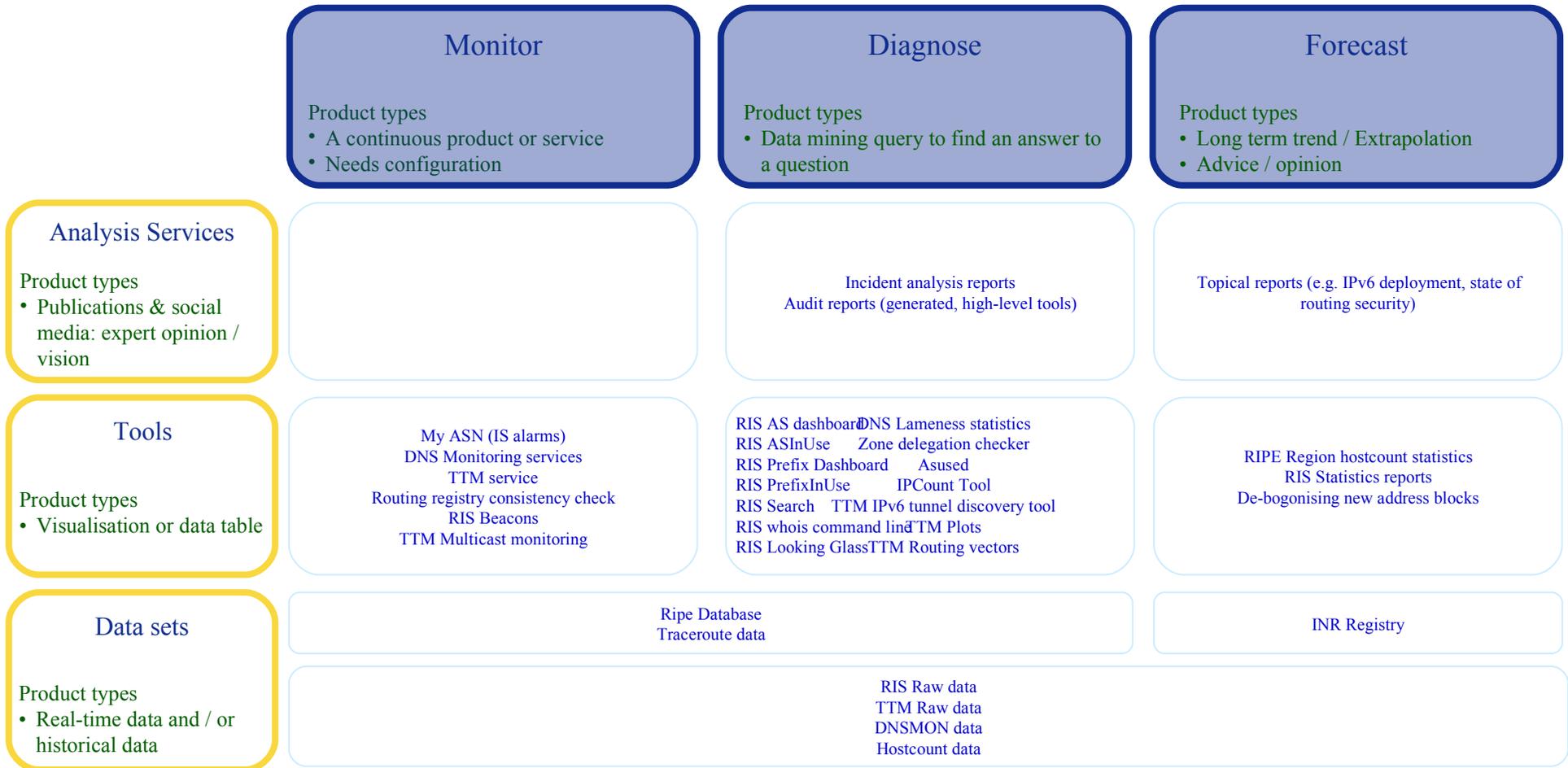
- Data format
- Methodology of data collection
- Meta information (let users know when data is incomplete or unreliable)
- Level of aggregation

IS Portfolio: Concept





IS Product Portfolio Framework





RIPE NCC NETSENSE

Sensible Data, Reliable Tools

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Sense

Select timeframe

This is the RIPE NCC "AS3333"

Prefix ↓	First Seen ↓	Last Seen ↓
193.0.0.0/21	2 hours ago	2 minutes ago
193.0.0.0/21	3 days ago	5 minutes ago
193.0.0.0/21	2 hours ago	2 minutes ago
193.0.0.0/21	3 months ago	13 minutes ago
193.0.0.0/21	1 hour ago	2 minutes ago
193.0.0.0/21	3 months ago	13 minutes ago

2 Inconsistencies

! X ✓



Routing Consistency

- Don't Filter
- All inconsistencies
- Routing table
- Database

As path lenght

Transits

BGP Routing Table ↓	Ripe Database ↓	
193.0.0.0/21	Not present	Not present !
193.0.12.0/23	193.0.18.0/23	Not present !
Not found	193.0.12.0/23	Not found X
193.0.20.0/23	193.0.20.0/23	Ok ✓
2001:610:240::/42	2001:610:240::/42	Not present !

1 2 3 4 5 ... 9



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AS3333

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Prefix ↑	First Seen ↑	Last Seen ↑
193.0.0.0/21	2 hours ago	2 minutes ago
193.0.0.0/21	3 days ago	5 minutes ago
193.0.0.0/21	2 hours ago	2 minutes ago
193.0.0.0/21	3 months ago	13 minutes ago
193.0.0.0/21	1 hour ago	2 minutes ago
193.0.0.0/21	3 months ago	13 minutes ago

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BGP Routing Table ↑

Ripe Database ↑



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Sense

Select timeframe

27/12/09

29/12/09

Current Status of
the Internet



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Questions?



Questions?





Information Services – Further Development

- Significant overhaul of the IS portal focusing on
 - Needs of different user groups
 - Integrated tools and applications
 - Intuitive and attractive user interface
- Interviews with representatives of user groups during RIPE58
- Increased cooperation with other partners
 - APNIC: extending active measurements in the AP
 - LACNIC and AfriNIC new measurement nodes in Montevideo and Johannesburg.

IS Innovation Focus

