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The Beginnings

- In **1990**, first Hostcount published
 - Count of DNS hosts in Europe
 - Before RIPE NCC existed

RIPE DNS host count as of October 2, 1990

Country	Hosts	2nd level domains
at	566	2
be	2	0
ch	5312	8
de	3384	28
dk	813	30
es	3	0
fi	3468	30
fr	3102	50
gr	103	7
ie	4	0
il	991	1
is	14	1
it	526	10
nl	3077	18
no	3949	36
pt	2	0
se	6112	34
uk	294	3
yu	2	0
-----		-----
	31724	258





The Beginnings

- In **1999**, the Routing Information Service was born
 - Massive collection of BGP routing data
 - Nowadays spanning 16 collectors
 - More than a terabyte of data
- In **2000**, we launched Test Traffic Measurement
 - Highly accurate active measurements
 - Due to Special Hardware
- In **2004**, DNS Monitoring service



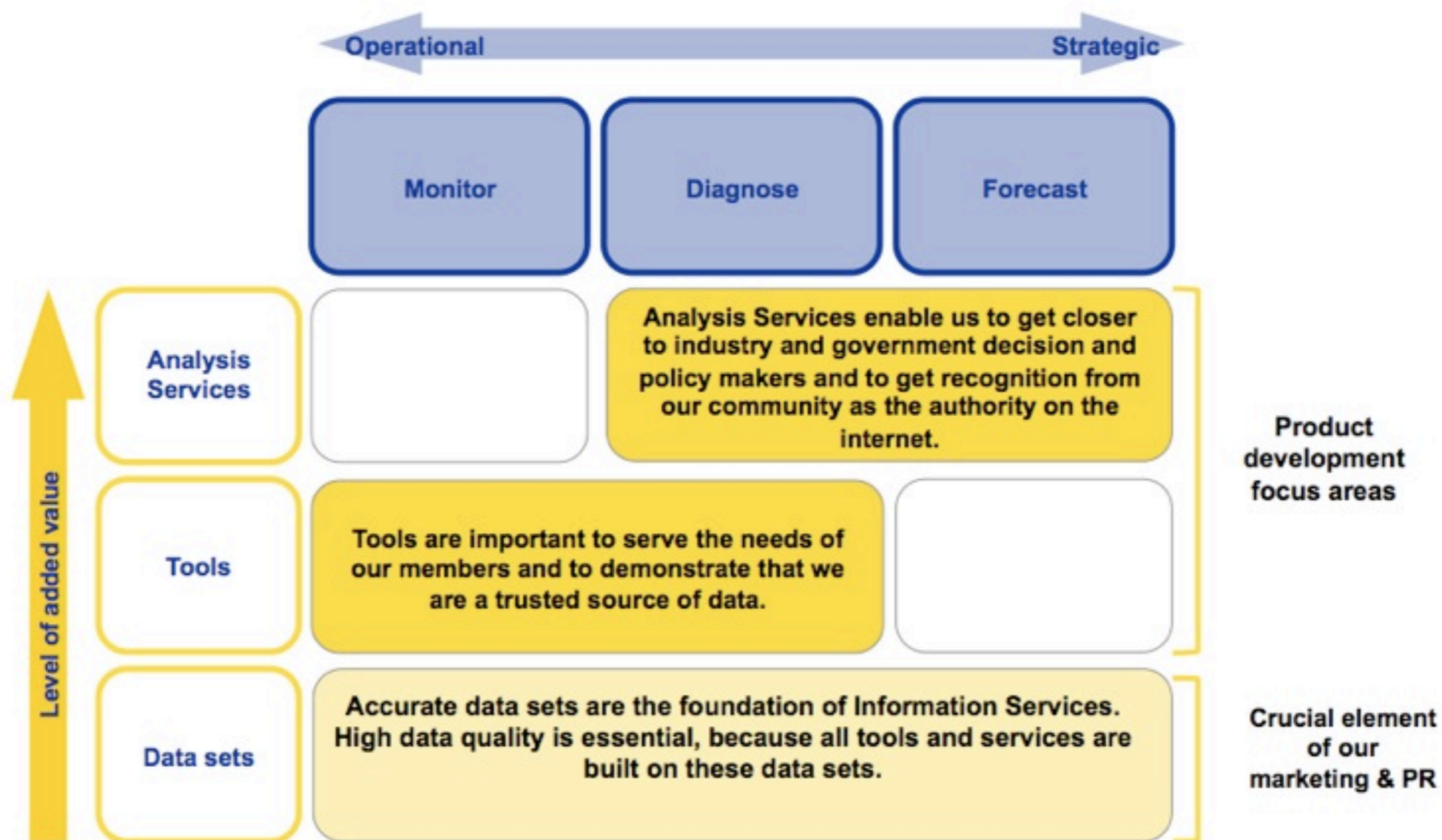
Recent History

- In **2006**, Information Services was founded
 - Attempt to unite measurement services
- Various improvements:
 - Simplified TTM pricing
 - Backend speed and resiliency improvements
 - New tools (RIS Dashboard, Hostcount UI)
 - Expanded measurement network
 - Now spanning 6 continents (only Antarctica missing)

Outside Help

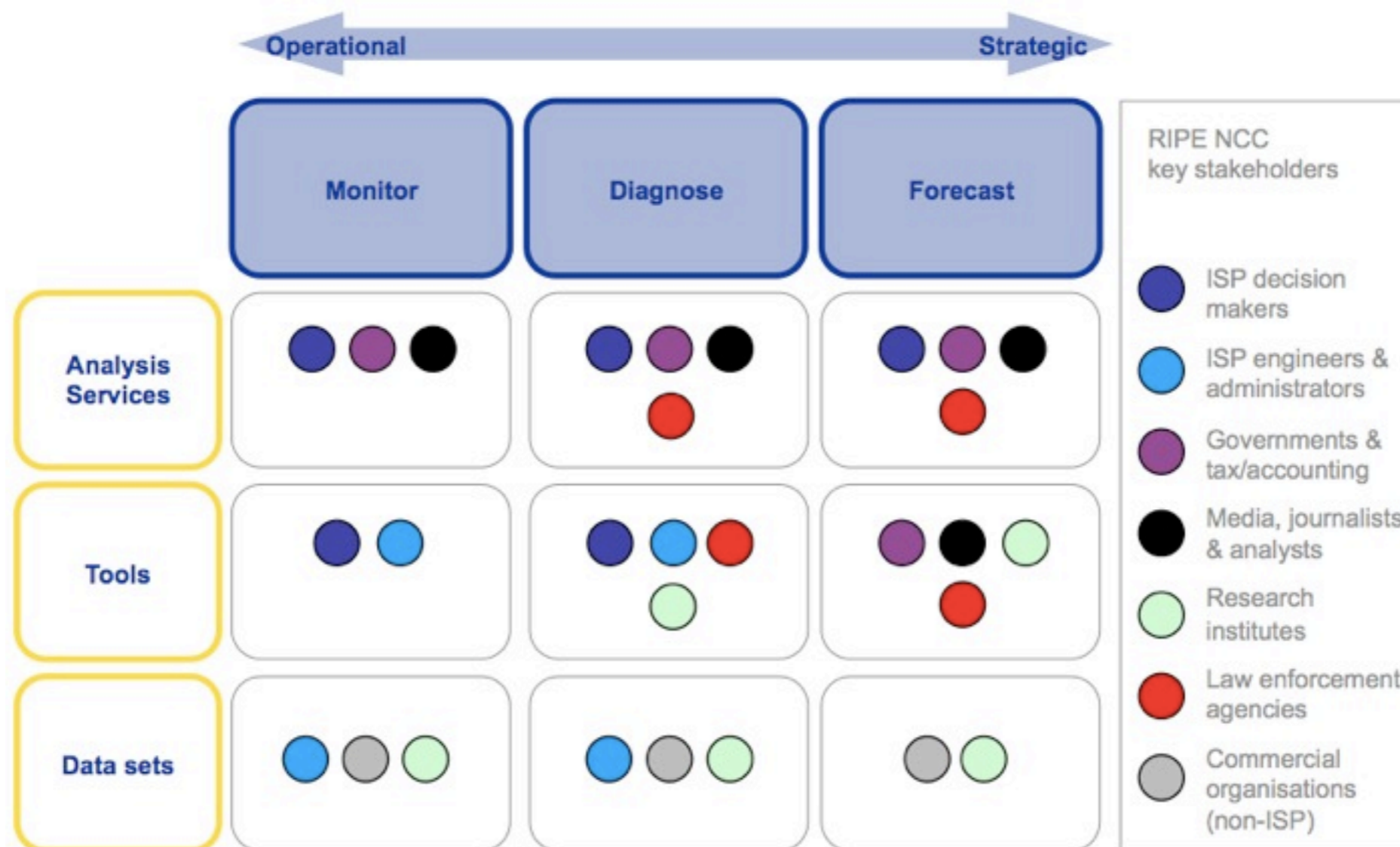
- SunIdee

- Based in Amsterdam
- Catalogued our entire portfolio (30+ tools and services)



Outside Help

- Stakeholder analysis
 - 7 major groups of stakeholders





Stakeholders

- Stakeholder interviews at RIPE 58
- Very good feedback



More user
friendly tools

Present
information
better



Thank you!

Global
overviews



Drill-down
approach





Development

- Traditional waterfall model doesn't work
- Requirements
 - Continuous stakeholder feedback
 - React to changing requirements quickly
 - Have production grade software as early as possible
- Scrum!
 - 2 week iterations
 - Production grade software
 - Continuous improvements

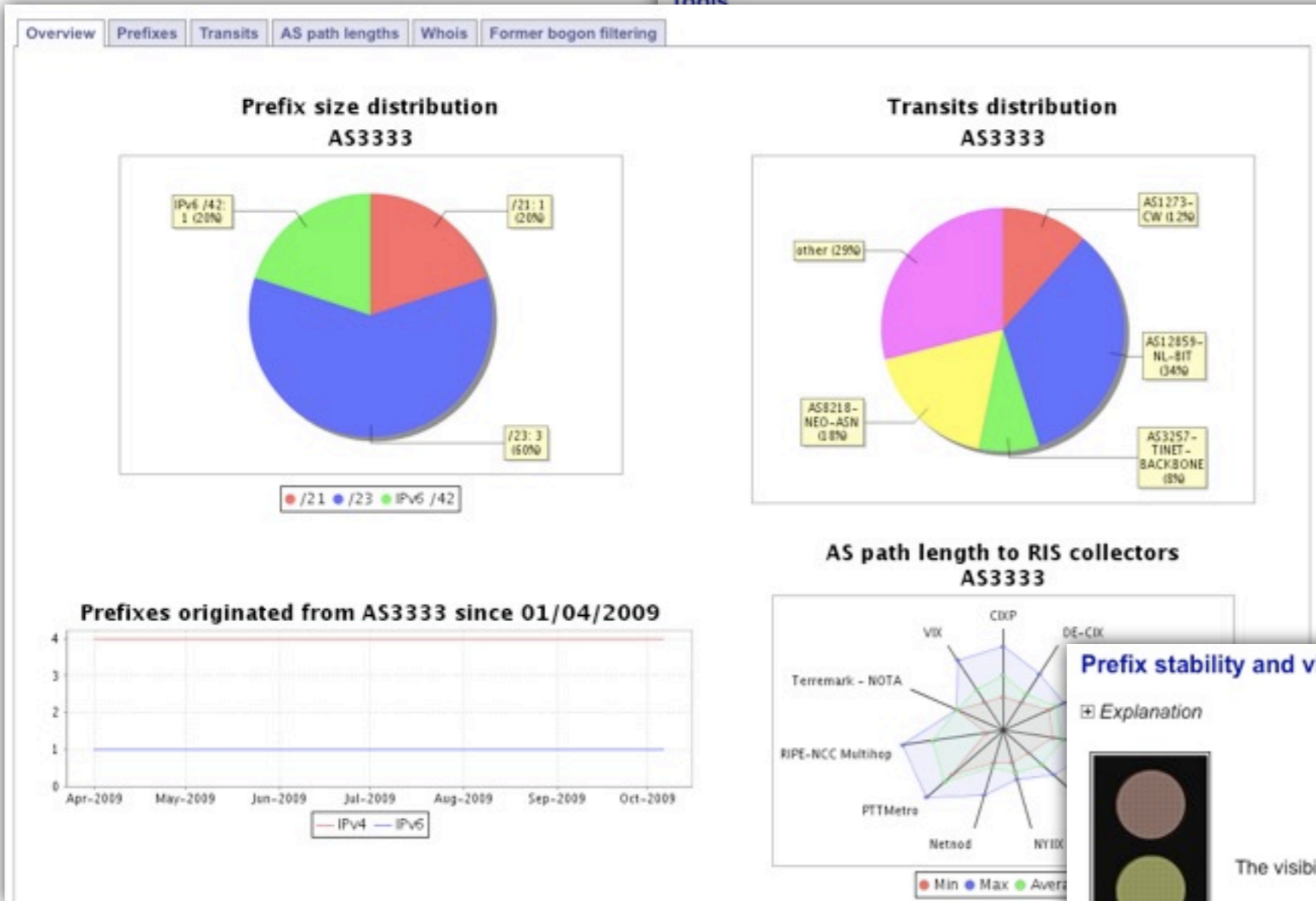


NetSense

Enter an ASN or prefix and see what RIS knows about it:

 [See RIS dashboard](#)

Tools



ments of your address space
 ons
 and provide statistical information about its neighbors
 who originated it
 eful when querying RIS from scripts. This also has a [web interface](#)
 and changes of the global routing table
 view statistics for the visibility of new address blocks over the Internet
 base insertion status

Prefix stability and visibility in the last 48 hours

Explanation



Visibility



Stability

The visibility of this prefix is **100%**.
 During the last 48 hours, **1 updates** per peer sending this prefix were found.



NetSense

AS3333

This is the RIPE NCC AS3333 +

Prefix <>	Last Seen <>	
193.0.0.0/21	2 hours ago	✓
193.0.18.0/23	1 hour ago	✓
193.0.12.0/23	15 minutes ago	i
193.0.20.0/23	3 months ago	✓
2001:610:240::/42	5 minutes ago	i

1 - 2 - 3 - ... - 8 - 9

2 Inconsistencies

⚠ ? 🔥 ✓

Stability | Visibility | **BGPViz** +

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Consistency | AS Path Length | Transits

Don't filter
 All inconsistencies
 Routing Table
 Database

BGP Routing Table <>	RIPE Database <>
193.0.0.0/21	Not present
Not found	193.0.18.0/23
193.0.12.0/23	193.0.12.0/23
193.0.20.0/23	193.0.20.0/23
2001:610:240::/42	2001:610:240::/42

1 - 2 - 3 - ... - 8 - 9



NetSense

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Find out information about your *AS or Prefix*

AS3333 - RIPE-NCC RIPE Network ...

Prefix	First Seen	Last Update
193.0.0.0/21	20 Mar 2009	6 hours ago
193.0.12.0/23	20 Mar 2009	6 hours ago
193.0.18.0/23	20 Mar 2009	6 hours ago
193.0.20.0/23	20 Mar 2009	40 minutes ago
2001:610:240::/42	20 Mar 2009	6 hours ago

Visibility of 3333

[Terms of Use](#)

Routing Consistency

Don't Filter
 Routing table

All inconsistencies
 Database
 Only consistencies

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

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RIPE 59 - October 2009

<http://www.ripe.net>

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Tuesday, 6 October 2009 (W)



NetSense

DEMO



NetSense

DEMO



RIPE Labs

- Launching NetSense this week via RIPE Labs
 - <http://labs.ripe.net>
- NetSense needs your feedback!
 - Try out NetSense or watch the screencast!
 - Participate in the RIPE Labs forum!
 - Send us an email netsense@ripe.net!

Questions?

