

Developing Nominet's registry security roadmap



nominet®

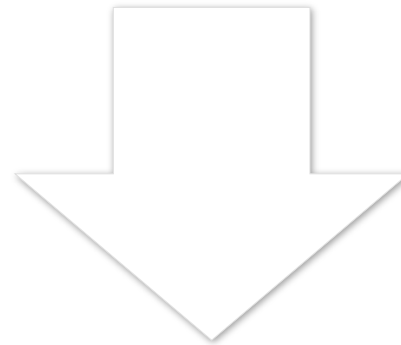
Origins

Increased desire
for higher
security

direct.uk

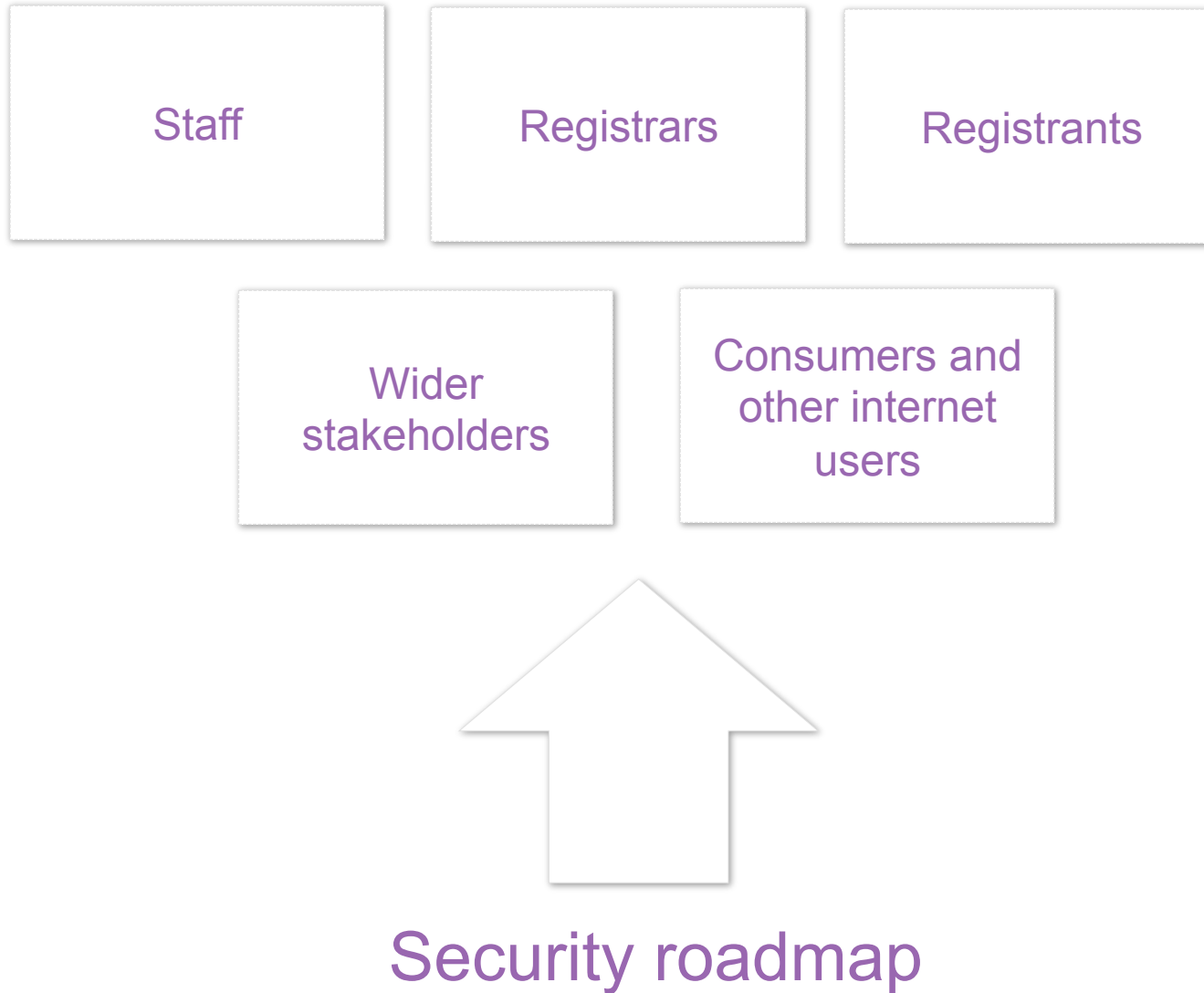
Innovation

Existing
initiatives



Security roadmap

Audience



Security roadmap

- Bring together existing work
- Share data across other initiatives
- Extension of existing products and services
- Focus on innovation through our Research and Development team
- Delivery of new products and services:
 - enhance our existing registry service
 - deliver diversified revenue opportunities

Key themes

Security

Trust

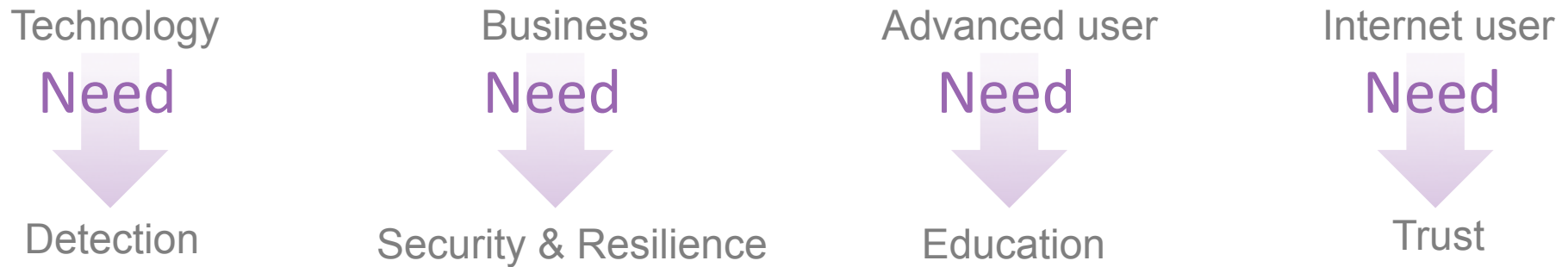
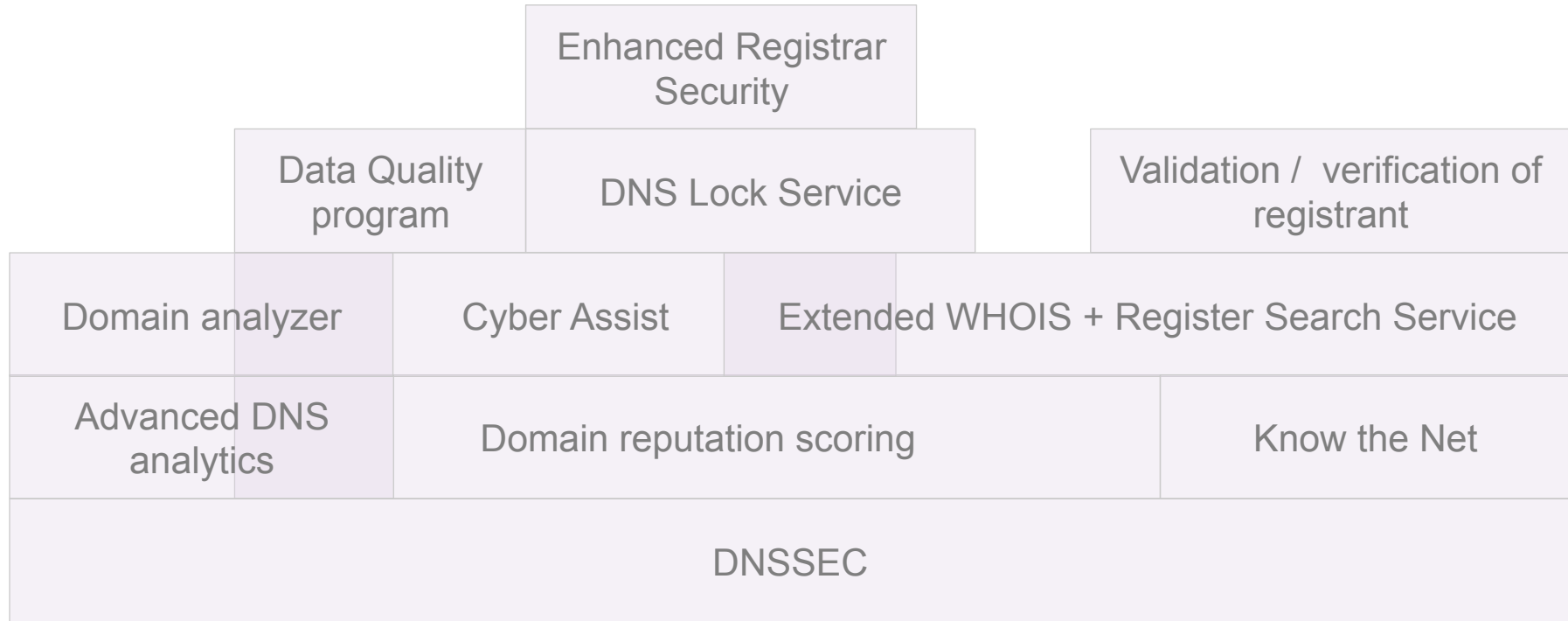
Detection

Resilienc
e

Education

Assistanc
e

Security roadmap



Register data



Data Quality program

- Ensuring registry data is as accurate as possible – finding and fixing problems

Validation / verification of registrant

- New registrations: more stringent demands

Extended WHOIS and Register Search Service

- Creating greater visibility

Register / registry security



Domain Lock

- Allowing high-value domains to be locked to prevent hacking

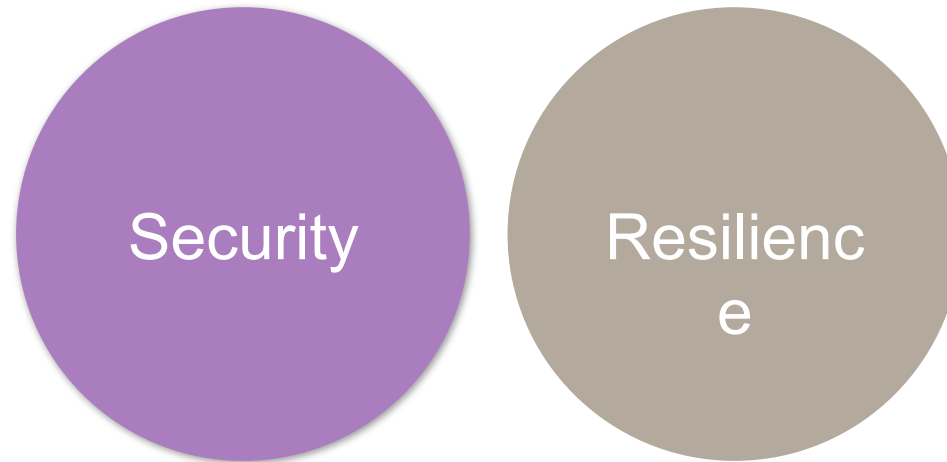
Staff education

- Preventing against social-engineering and hacking attempts

Enhanced Registrar Security

- Two factor authentication to protect account from hacking

DNS security



DNSSEC

- Preventing man-in-the-middle and domain spoofing

Advanced DNS Analytics

- Understanding DNS traffic in detail to help prevent exploits such as spam, botnets etc

Education and Assistance



Education



Assistance

Cyber Assist

- Service aimed at small to medium sized business: helping with cyber threats and providing assistance and education

Know the Net

- Educational website – blog posts, articles, how-to's

Innovation



Security

Resilienc
e

Detection

Advanced DNS Analytics

- Provides a source for developing new solutions to DNS problems

Domain Reputation Scoring

- Evaluating and 'scoring' domains based on a wide range of indicators

Observations and lessons

Registries must innovate and stay current to deal with changing cyber threats

Can be an opportunity:

- to publicise existing good work
- to provide new products and services
- to build wider relationships with other stakeholders

However:

- not everyone will welcome higher security
- some will see higher security as a threat
- creating new services can be controversial

Thank you!

Any questions?