Evolution of Network Security System

Description

1. Length of speeches：10 min ~ 15 min

2.Target Audience：Carrier CTO、Network Expert

3.Summary:

Begin with introducing classic network security technology system challenged by complicated threats for now.

Then, Focus on the Emerging security system which consist of new security technologies, and the hype cycle of them.
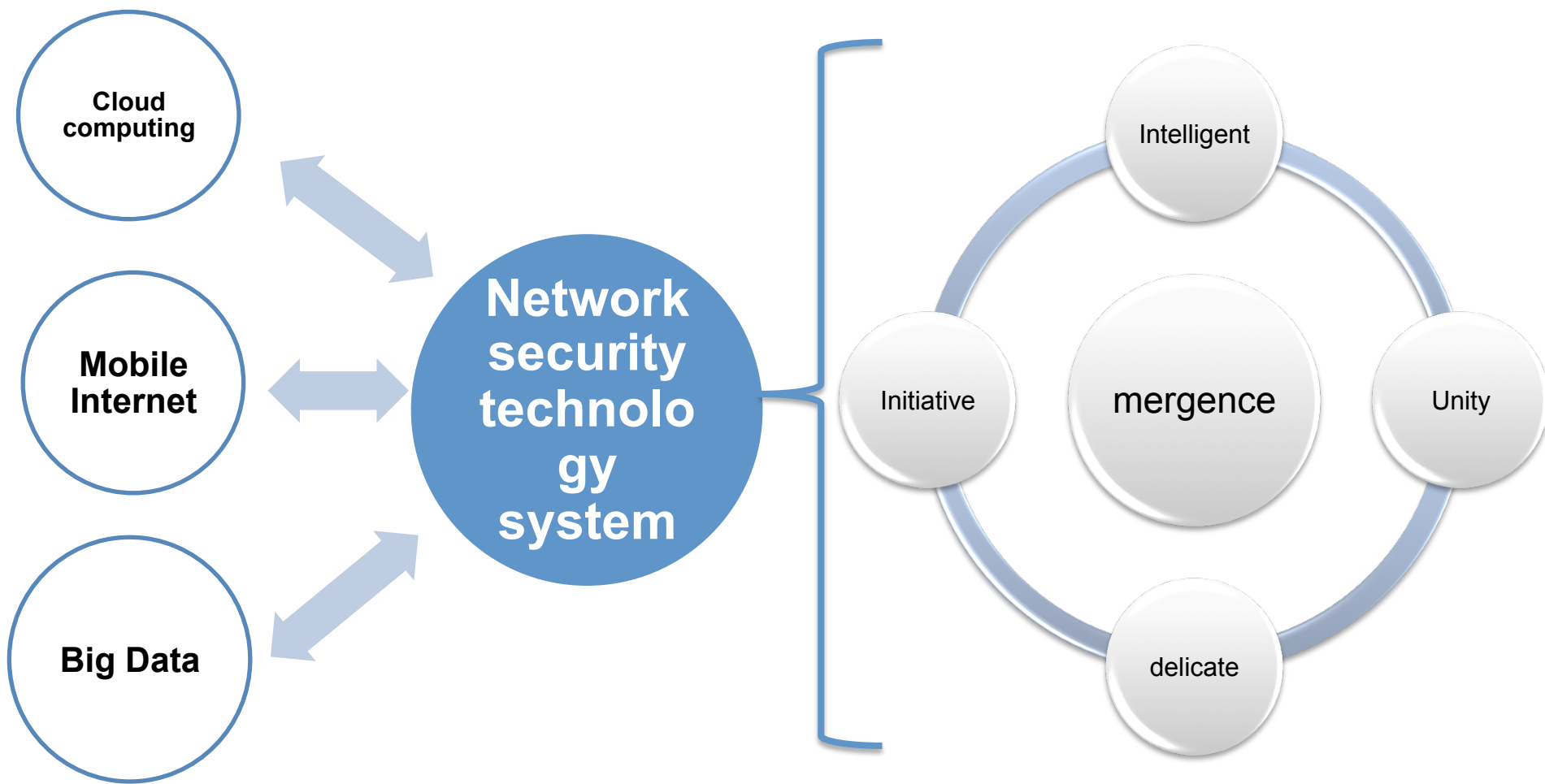
Last, review the security product and service, and show the domain we focus on。
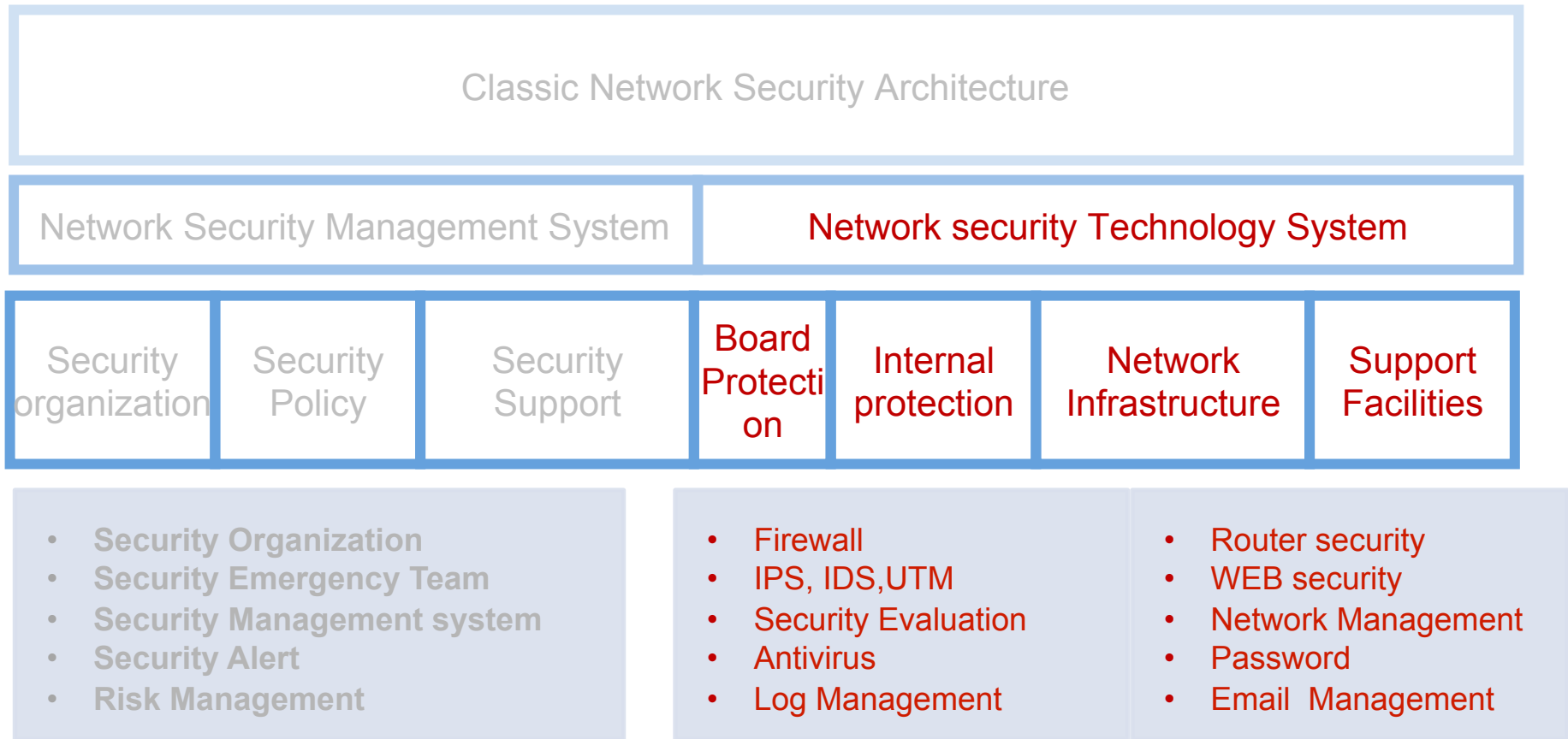
4.No case study, No Q&A

Threats challenging the Network security
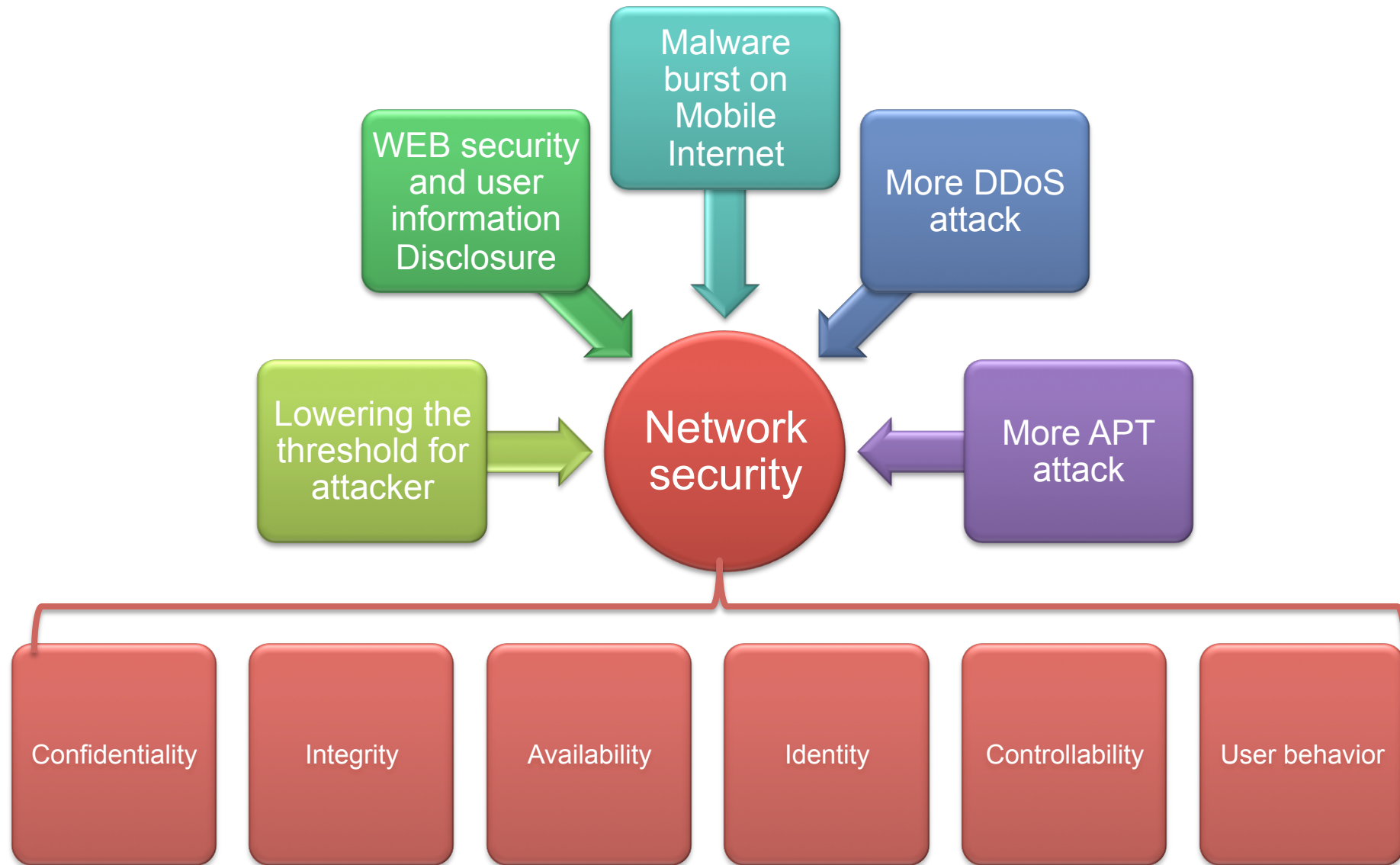
Trend of network security technology system

Classic Network Security architecture

Classic Network Security Architecture	
Network Security Management System	**Network security Technology System**

Security organization	Security Policy	Security Support	Board Protection	Internal protection	Network Infrastructure	Support Facilities

- Security Organization
- Security Emergency Team
- Security Management system
- Security Alert
- Risk Management

- Firewall
- IPS, IDS,UTM
- Security Evaluation
- Antivirus
- Log Management

- Router security
- WEB security
- Network Management
- Password
- Email Management

Traditional network security technology system belongs to the traditional network security architecture, including four security field, technically deal with a variety of Internet threats.
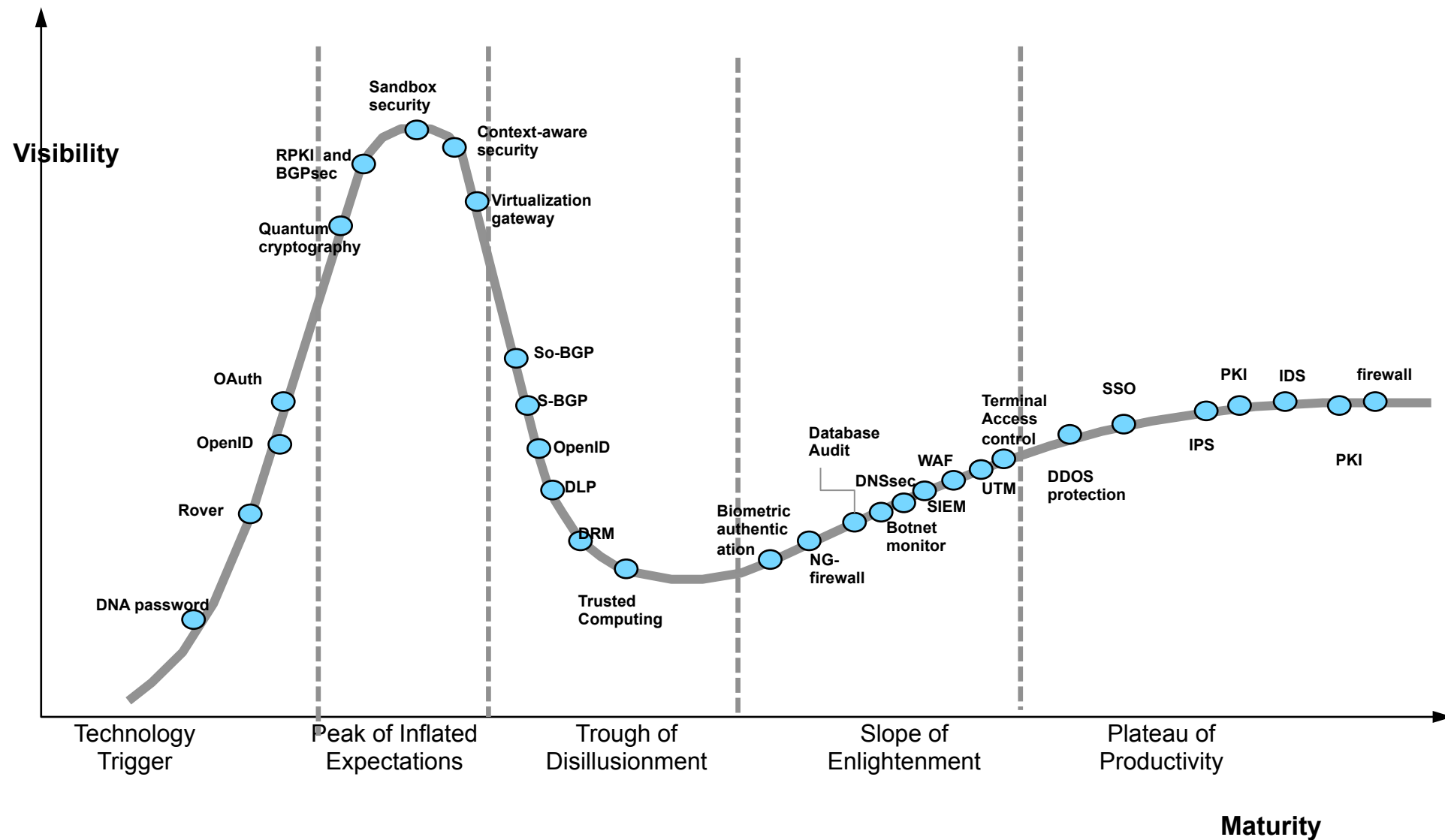
New network security technology system-part one

	Domain	Catalog	Emerging Technique
Network Securtiy technology system	Board Protection	Access Control	Next generation firewall,UTM
		Intrusion detection and prevention	IDS、WLAN IPS
		Abnormal flow protection	DDoS Protection,Botnet Monitor
	Internal protection	Risk Management	Vulnerability Assessment,SIEM,Business Continuity Management Risk Assessment
		Malicious code protection	Signature technology,Behavioral monitoring technology, Security sandbox technology
		Audit	Configuration auditing, database auditing and protection
		Content security	Automatically detect, propagation of new media
		Data security	DLP

New network security technology system-part two

Domain		Catalog	Emerging Technique
Network Securtiy technology system	Network Infrastructure Protection	Router security	S-BGP,soBGP,RPKI &BGPsec,ROVER
		DNS security	DNSSec
		Web security	WAF,Web Gateway
	Supporting	Password	PKI,DNA password, Quantum cryptography, Homomorphic encryption
		Authenticate	Oauth,OpenID,OpenID Connect,Context-aware security,SSO,Biometric authentication
	Terminal	Terminal	Terminal access control, Trusted Computing

Hype cycle of network security technology

Visibility

- Sandbox security
- Context-aware security
- RPKI and BGPsec
- Virtualization gateway
- Quantum cryptography
- So-BGP
- OAuth
- S-BGP
- OpenID
- OpenID
- DLP
- Rover
- DRM
- Biometric authentication
- Database Audit
- DNSsec
- WAF
- Terminal Access control
- SSO
- PKI
- IDS
- firewall
- DNA password
- Trusted Computing
- NG-firewall
- Botnet monitor
- SIEM
- UTM
- DDOS protection
- IPS
- PKI

Technology Trigger | Peak of Inflated Expectations | Trough of Disillusionment | Slope of Enlightenment | Plateau of Productivity

Maturity

THANK YOU !