

Threats from the ether

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The Trends in Cyberspace Threats-- Actors

Then

Hobbyist
hackers

Now

Hacktavists
Criminals
Nation States
Teenagers
“Whistle Blowers”

Future

All of the above plus:
Armies
Corporations
Organized crime
International cartels

2003

2013

2023



The Trends in Cyberspace Threats-- Consequences

Then

Mischief

Now

Service disorder

Espionage

Fraud

Intellectual property theft

Financial theft

Destruction

Future

All of the above plus:

Protected criminal
collaboration

Cyberwar

Political manipulation

Global terrorism

2003

2013

2023



The Trends in Cyberspace Threats— Frequency of attack

Then

Weekly

Now

Thousands of attacks per
day

Thousands of fraud
attempts per week

Future

Continuous, real time
attacks

Daily bombardment of
fraud and criminal activity

Interactive

Automated
countermeasure
detection

2003

2013

2023



The background features a dark red to black gradient with glowing yellow and orange binary code (0s and 1s) scattered throughout. On the left side, there is a complex network of glowing yellow lines and nodes, resembling a fiber optic or data network structure.

CYBER CRIME

"In the not too distant future, we anticipate that the cyber threat will pose the number one threat to our country"

Robert Mueller
Director, FBI
March 1, 2012

**Today's
Target:**

Advanced
Persistent
Threat

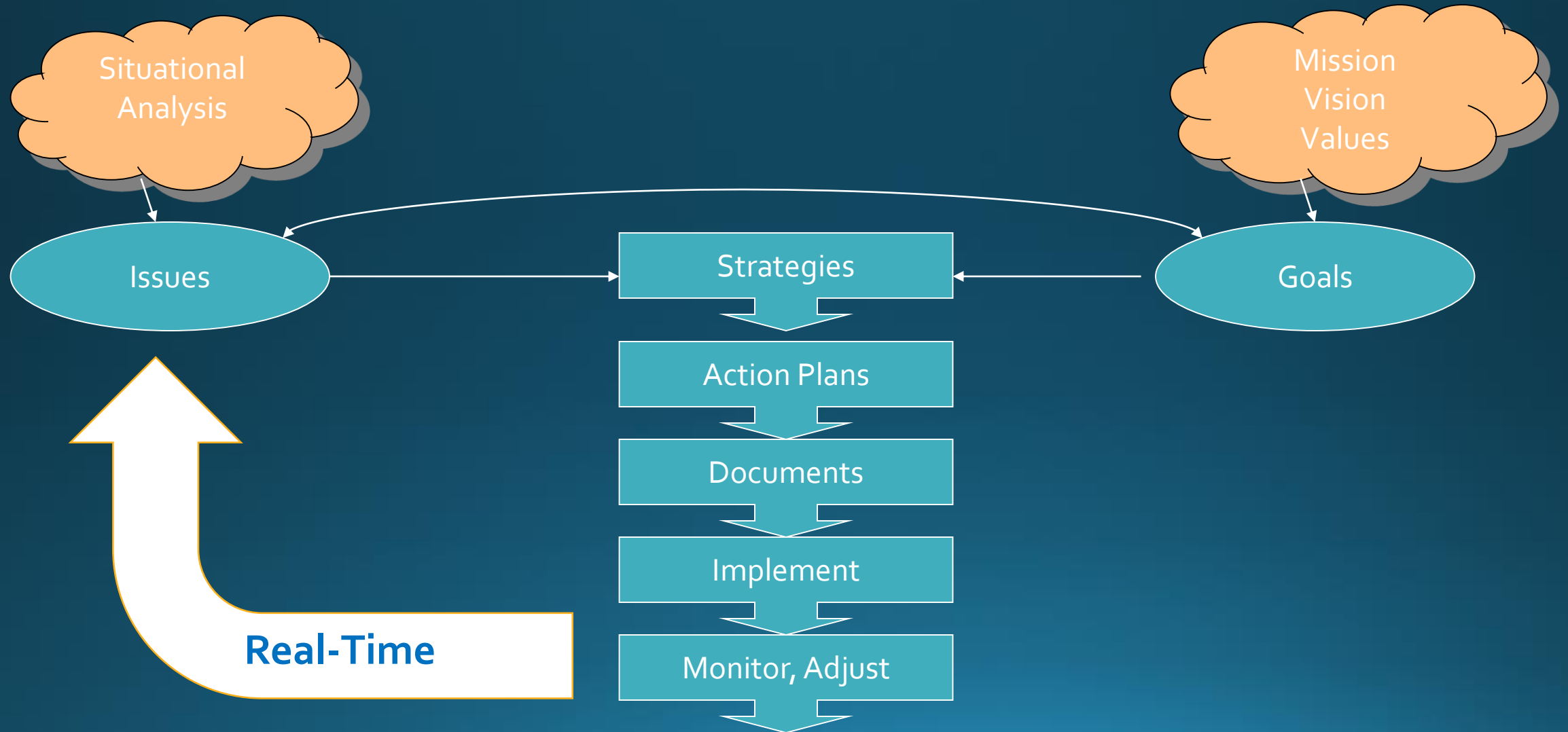
Combining Social Engineering and Technology

Service-oriented cybersecurity framework



Source: computerworld

Issues-based strategic planning



CyberSecurity Framework



Source: University of Texas at San Antonio