



Socio-economic barriers to information sharing

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SLIDE 1 of 108

1 Why information sharing is vital for CIIP

2 Social and Economic challenges, barriers

3 Importance of finding solutions



Foundations of modern society,
economic stability built on
electronic communication
infrastructures

Cross border interdependence of
critical infrastructure systems

Networks and systems
vulnerable

Possible attack or disruption

Given the online threat environment...

Threat awareness and analysis key

Fundamental component of modern risk based security strategy

Right information at the right time

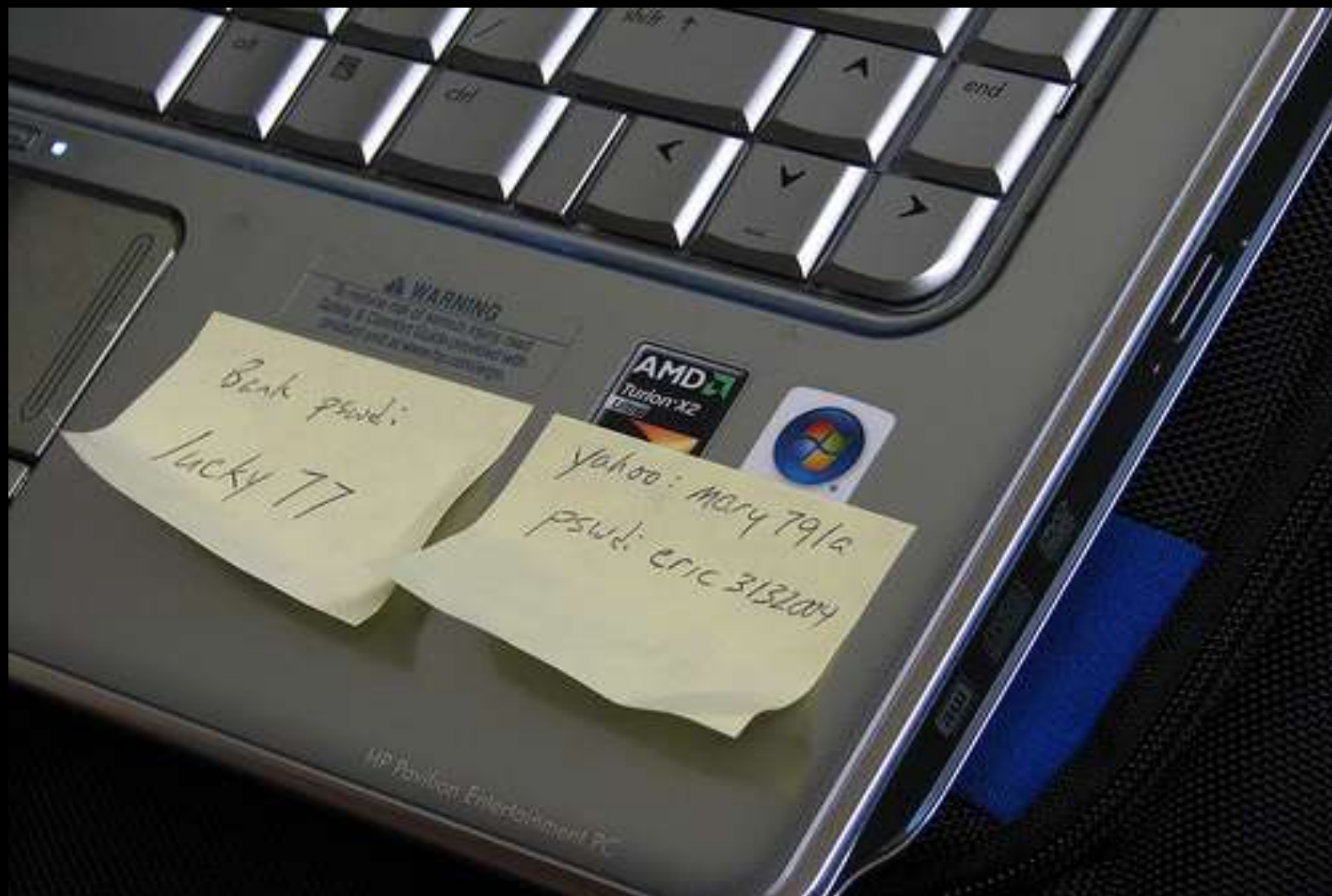
Enables timely response



Information is power

- All those involved have partial view
- How do you bring these piece together?
- How to develop common vision of threats and risks across EU?
- Part of the answer - information sharing

What do we mean by sharing...well not this !!!!



- Real-time information collection, correlation
- Data analysis of abnormal or irregular behavior
- Suspicious activity
- Attack facing critical infrastructure systems

Situational context and awareness of events

In depth analysis of targeted malware and attacks

Monitoring of network vulnerabilities and exploits

Incident analysis and lessons learned

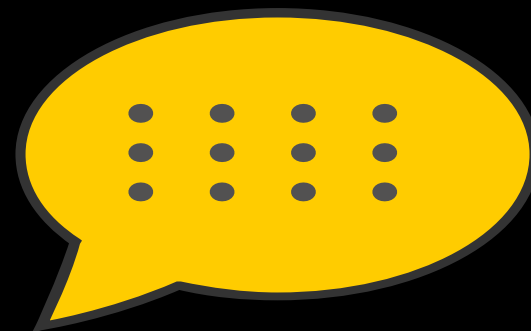
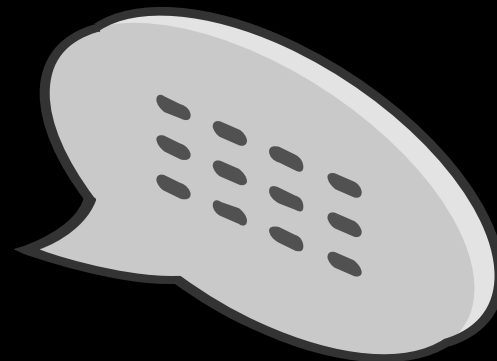
Timely and relevant delivery of evaluated information

Enables real time decisions in incident handling

Information sharing can occur

Many different levels

- Governments to Governments
- Industry to industry
- Government to industry
- Law enforcement - law enforcement
- Industry - Law enforcement



**But today information sharing is a topical issue
of debate and concern...**

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BBC NEWS ▶ LIVE BBC NEWS CHANNEL

Last Updated: Thursday, 29 May, 2003, 12:13 GMT 13:13 UK

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Spooks 'to share terror secrets'

The UK's latest move in the fight against terrorism is a secret project to bring together intelligence data from the UK's security agencies, say reports.



The project, called Scope, is intended to share information between nine government

MI5 will be among those sharing

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Europe Mulls Bank Data Sharing with U.S.

After a previous plan to share bank data with the U.S. collapsed, European authorities are aiming for a new deal in the fight

By Valentina Pop

euobserver.com EU interior ministers want to negotiate a new agreement with the US on bank data transfers after the European Parliament struck down an interim deal earlier this month blocking American authorities from tracking down terror

Monday, March 15, 2010 As of 11:46 AM UTC

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From The Times
January 15, 2009

Data sharing 'is step towards Big Brother'

Personal data gathered by one government department will be available to other areas of Whitehall, local government and agencies under proposed legislation published yesterday.

This will open the way for the bulk sharing of information across government, and reverses existing policy, in which data can only be used for the purpose for which it was gathered. Jack Straw, the Justice Secretary, defended the proposal, saying that it was intended to improve public services and help to fight crime.

Opponents said that it was a further step towards a 'Big Brother' state and that the Government had a poor record on protecting sensitive data. Mr Straw said that the information sharing orders, published at the Commons and Justice Bill, would have "very strict

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- More ahead of the green times table
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MICHAEL FOOT



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21 Feb 10

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Questions, challenges. Leading to barriers?

- What information is being shared?
- Who is it being shared with?
- Why is information being shared?
- Am I allowed to share information?
- What will have if I don't ?
- Is it worth the risk?

- Challenges on many levels
 - Political
 - Legal
 - Logistical
 - Social
 - Economic



Social challenges to information sharing – Partners

Lack of trust and confidence

- Sharing needs clear purpose, scope, mandate, roles, responsibilities
 - i.e CERT Charter model
- Willing to share in trusted environment
- Talk not just listen
- People with necessary seniority to take decisions
- Secure information exchange systems
 - EU FP7 Research projects



Cultural and technological barriers

- Member States at different stages of the journey
- Recognition of different technology, networks, systems
- EU sharing can involve different languages
- Need to speak same technical terminology, language
 - What is a security incident?
 - What would trigger response requirement?
 - What's top secret, confidential data?
 - Who is point of contact –agency, sector?



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Social challenges to information sharing - Citizens



Public perception of data sharing

- Making the case?
- Communicate CIIP issues without causing panic
- Personal identifiable information concerns
 - privacy, data protection
- Public concern over collection of online information
- What happens if data is lost
 - data breach notification

Economic challenges

Establishing information sharing infrastructures

- Financial costs of setting up frameworks, procedures, systems
- Logistical costs developing, implementing common shared systems
- Secure information exchange requirements – encryption...
- Need for single points of contact – 24/7
- Technology, People and Processes must all be in place



EU Business competitiveness

- Risk to EU as place to do business if costs too high
- Companies leave EU if information mandates, requirements and obligations too high

Liability costs

- Exposure of confidential data impact !
- Unclear data sharing requirements could result in liability implications
- Legal protections must ensure companies fully protected from legal prosecution



Reputation and Brand Impact

- Implications of incidents involving data
- Regulatory fines perhaps - DPA
- Direct costs of data breach incident
 - £84,000 to almost £3.8 million – cost to business
 - £47 - Average cost per record compromised
 - 36% of the costs due to lost business
- Indirect costs to business
 - Brand impact on company
 - Adverse PR
 - Loss of citizens trust and confidence



Where do we all go from here!



What we know.....

1. Threats are dynamic, evolving
2. Networks, systems interdependent
3. Member States must have capability to react to threats - CIIP
4. Information sharing is vital
5. Enables timely and effective decisions to act
6. But there are challenges that we must address....

Final thoughts

But how?

- Increase policy makers understanding
- Recognise citizens concerns
- Address privacy issues clearly
- Remove duplication of efforts and share using secure systems
- Identify and promote best practice
- Ensure correct legal, regularly framework
- Continue talking, listening and sharing
- The future.....





Thank you!

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