

# SARA and Standards of Practice

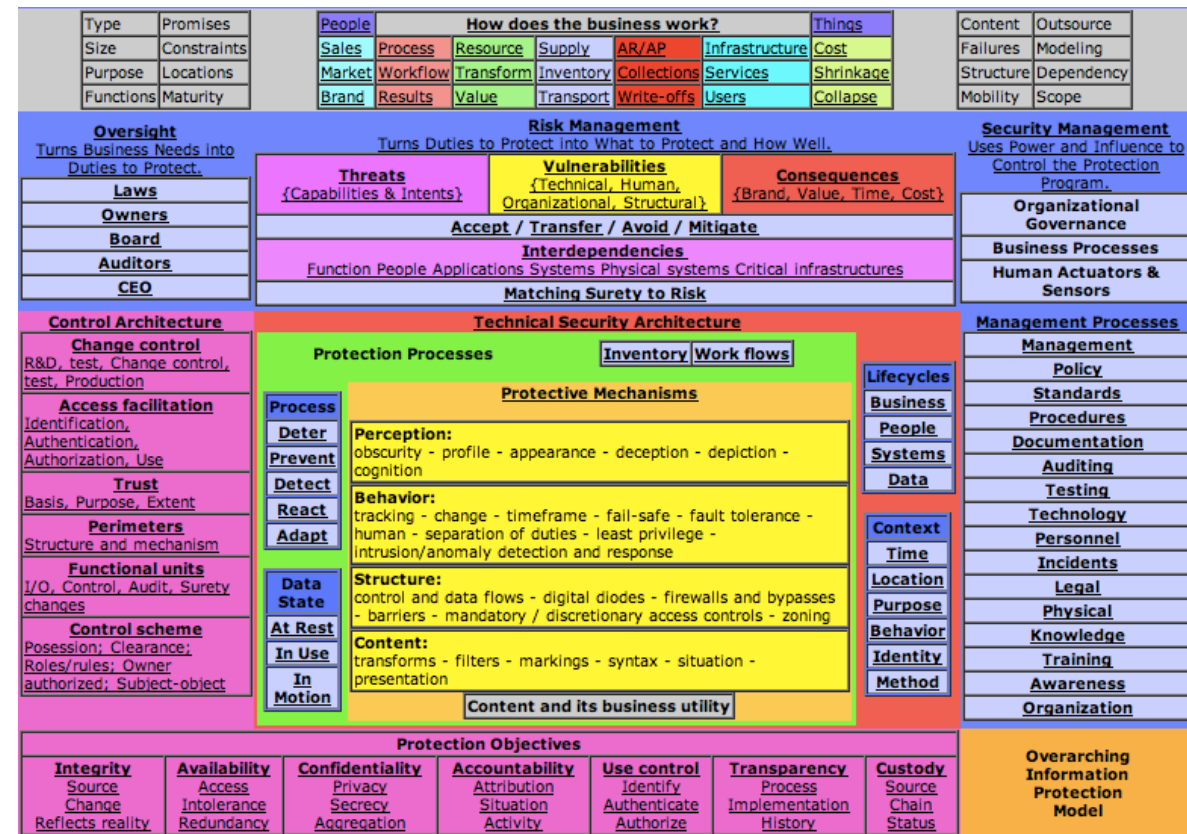
2014-09-17

The ICS-ISAC SARA Conference

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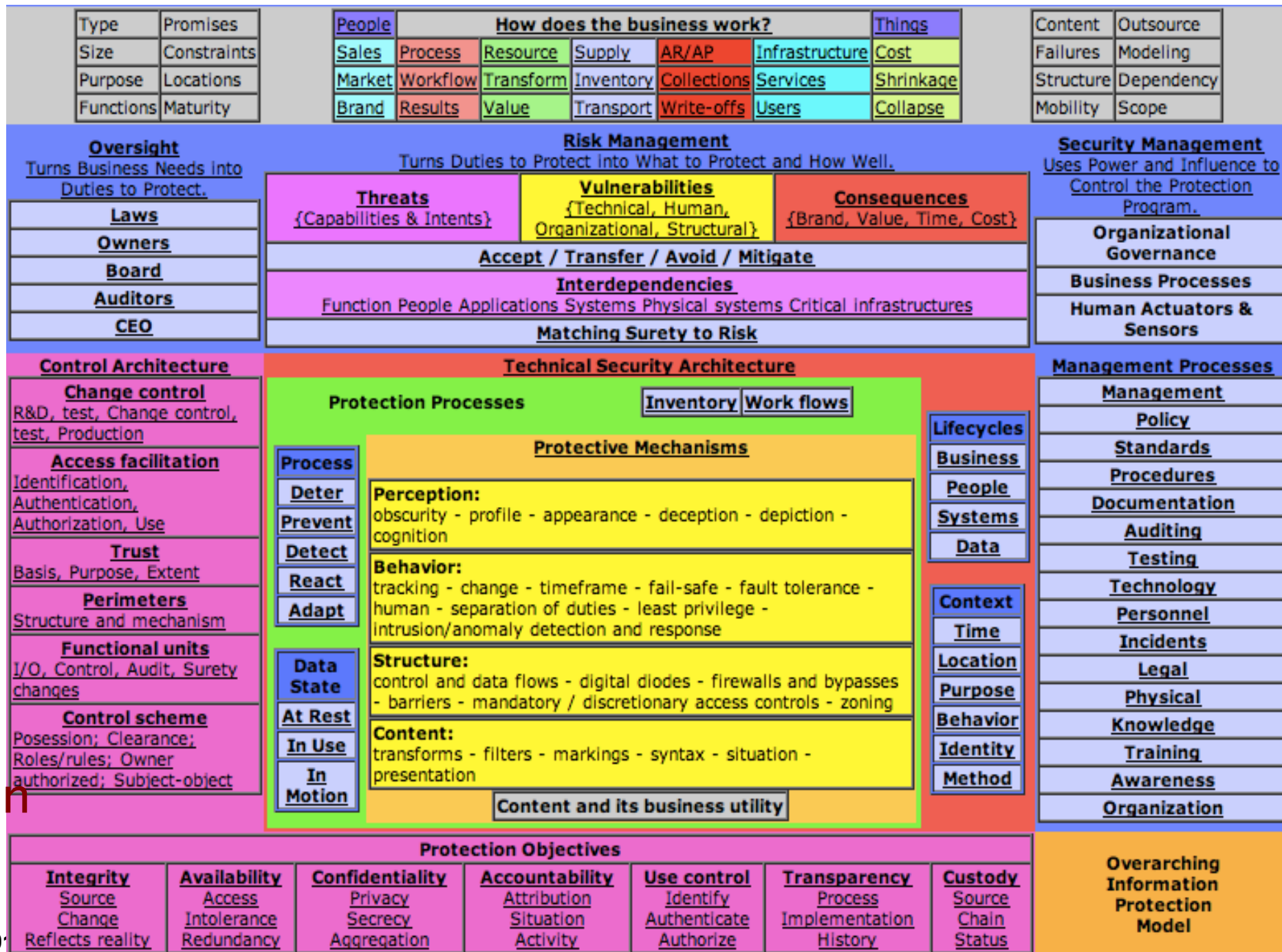
# Outline

- **Situation Awareness Reference Architecture**
  - **Identity**, Inventory, Activity, Sharing
    - Standards of Practice (SoP)
  - Specify & review – separation of duties – independence



# Situation Awareness Reference Architecture

- Identity
  - Context
    - SoP
- Inventory
- Activity
- Sharing
- All.net
  - Protection
    - SoP



# Why is identity so important?

- Without the context, decisions are meaningless
  - How do you know what to share if you don't know why?
  - How do you know what to look at/for without context?
  - What will you do with the information when/if you get it?
- It's all about the business
  - The utility of content drives the identity process
    - What is the utility?
    - How do we assure the utility?
    - What do we do when the utility breaks down?
    - How far are we willing to let it break down?
    - In the face of what threats?
    - To what business advantage?

# We apply Standards of Practice

- What is a (our) Standard of Practice (SoP)
  - An SoP is **not** a “Standard” (something you follow)
  - “Reasonable and Prudent” practices (diligent vs. negligent)
    - **Not the ONLY such practices** – not always applicable
  - Open source/reviewed: <http://all.net/> → Protection → SoP ...
- We use the standard of practice to help our experts
  - Ask a reasonably comprehensive set of questions
  - Codify responses consistently in a defined language
  - Guide decisions using pre-defined bases (rote vs. real)
  - Identify variances from baselines for consideration
- When the standard practice works, we use it
  - When it doesn't, we adapt, and update if/as appropriate

# SoP on the Web

- Live demonstration of the ICS SoP



- Other SoPs

- Enterprise – started in the 1990s



- Applied to hundreds of enterprises over many years
      - Metrics gained from efforts are useful for various purposes

- Archives and Records Management (ARM)



- Being developed in cooperation with ITrust out of UBC
      - Currently pending the 1<sup>st</sup> two archives → more to come
      - Building a simple sample (rote) compliant archive



- Cyber Insurance – the context required to determine rates

- Working with RISCO, Lloyds, others
      - Using SoP as baseline and fusing with actuarial data

- Scientific research as a basis

- A long way to go – and the Webster CyberLab ...



# Thank You



**<http://all.net/> - fc at all.net**