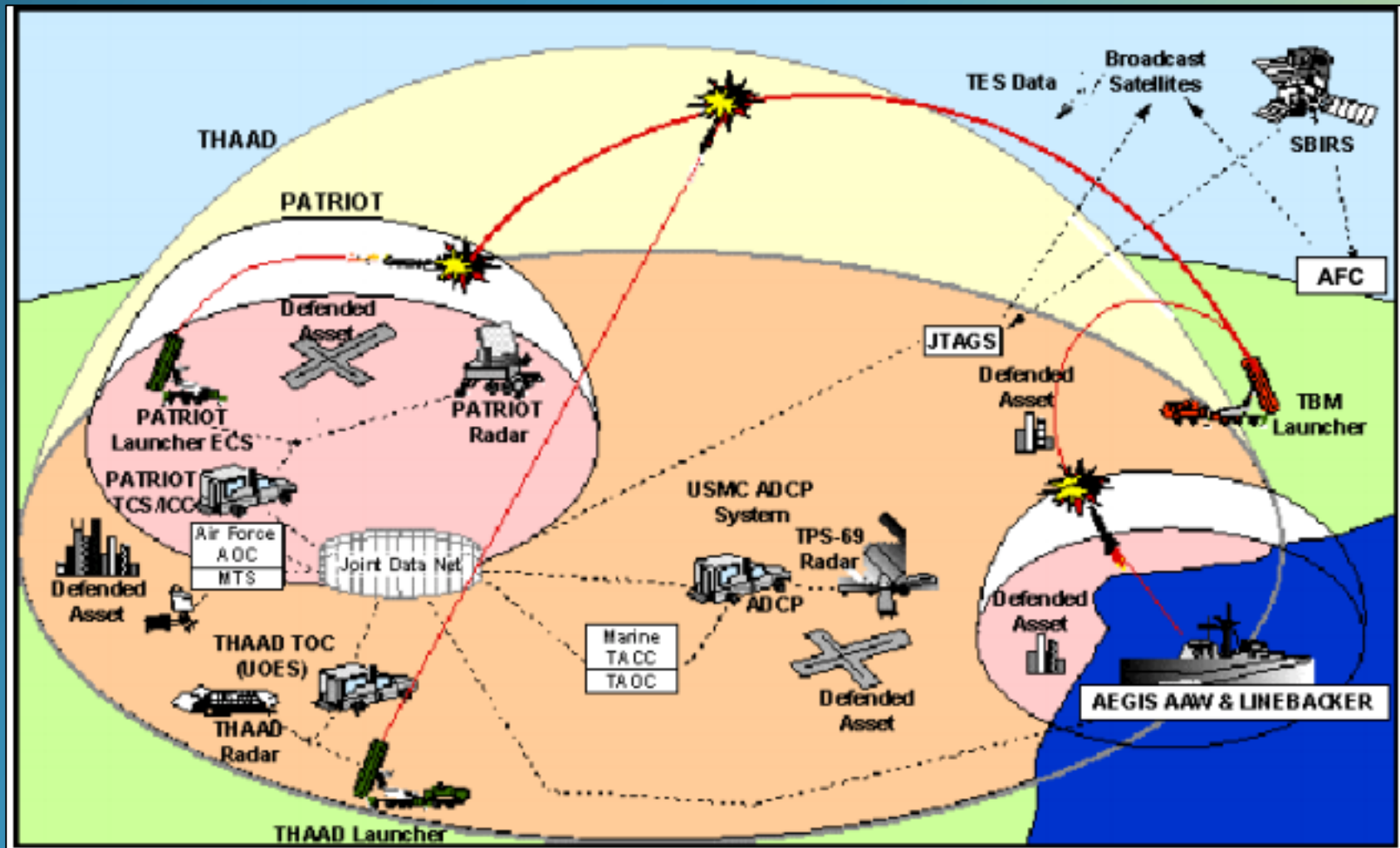


**OK, try it now...**

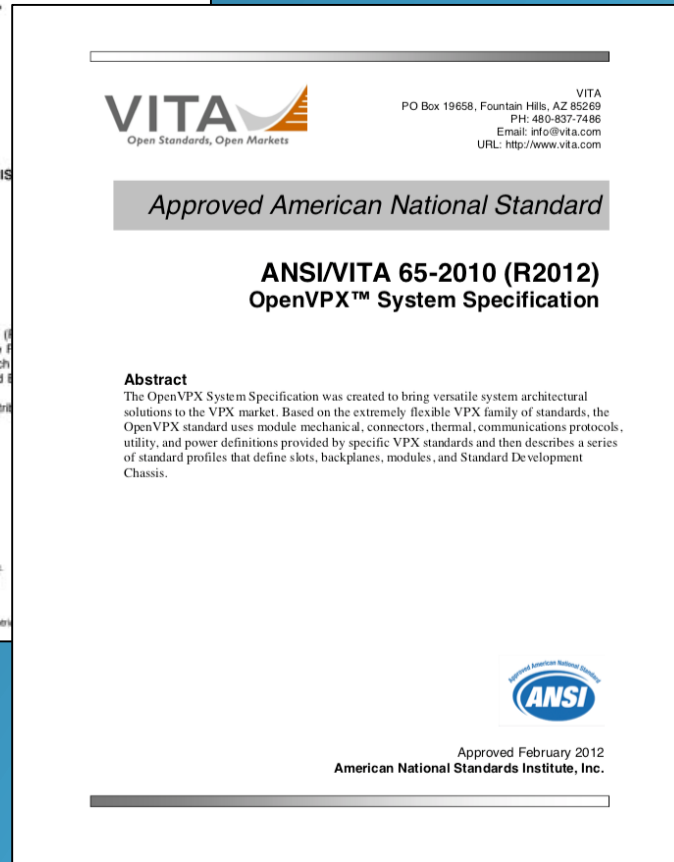
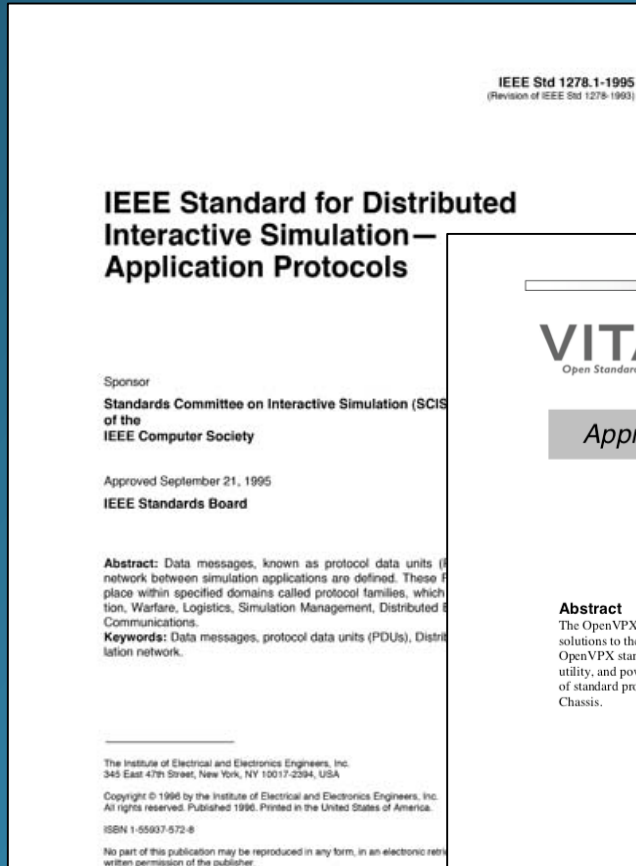
**Tram Chase  
SimVentions, Inc.  
28 Jan 2010**

1995





# Document-centric approach



Promotes stove-piped manual workflows that must be repeated

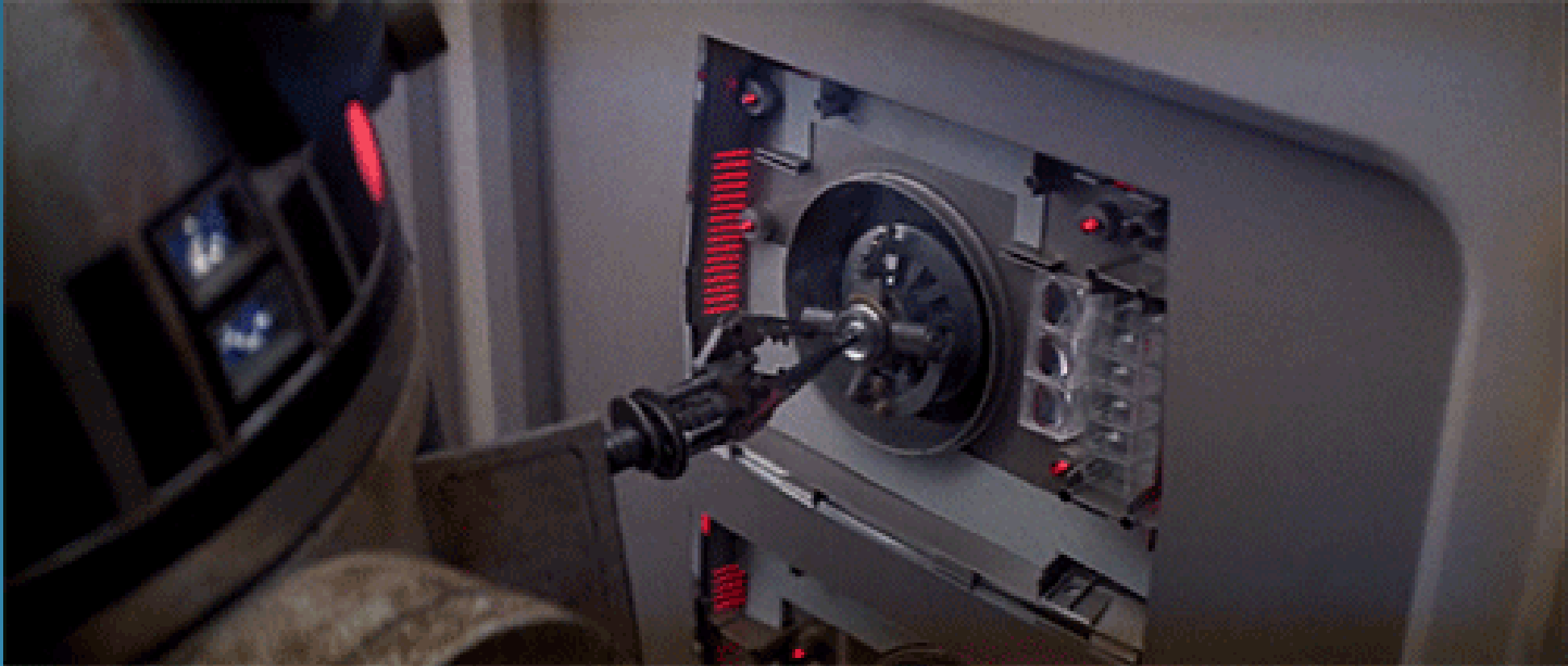
Impedes the ability to rapidly answer questions

Data is all over the place

Increased likelihood of error

2019





# Data-centric approach

```
    "type" : ""
  },
  ],
  "power5vInAmps" : 8.0,
  "power3_3vInAmps" : 4.0,
  "power3_3vAuxInAmps" : 0.0,
  "powerTotalInWatts" : 53.2,
  "dataPlanes" : [
    {
      "protocol" : "Ethernet",
      "width" : "",
      "version" : "1000BASE",
      "portQuantity" : 2,
      "gbaudRateInGBd" : 0.1,
      "pipeSize" : "FP"
    }
  ],
  "controlPlanes" : [
    {
      "protocol" : "1000BASE",
      "width" : "",
      "version" : "BX",
      "portQuantity" : 2,
      "gbaudRateInGBd" : 0.1,
      "pipeSize" : "UTP"
    }
  ],
  "expansionPlanes" : [],
  "mezzanineSlots" : [
    {
      "index" : 1,
      "form" : "XMC",
      "mapping" : "X24S+X8D",
      "protocol" : "",
      "protocolVersion" : "",
      "interfaceConfigurati",
      "size" : "Single Width",
      "connectorType" : "VI",
      "interfacePowerInterf"
    }
  ],
  "ports" : [
    {
      "type" : "PCIe",
      "version" : "Gen 2",
      "location" : ""
    }
  ],
  }
```

|                          |                    |                                   |          |
|--------------------------|--------------------|-----------------------------------|----------|
| <input type="checkbox"/> | _id                | ObjectId("5ba9214b1d459627f868... | ObjectId |
| <input type="checkbox"/> | imageData          | [ 0 elements ]                    | Array    |
| <input type="checkbox"/> | topology           | [ 2 elements ]                    | Array    |
| <input type="checkbox"/> | editable           | false                             | Boolean  |
| <input type="checkbox"/> | deletable          | false                             | Boolean  |
| <input type="checkbox"/> | documentation      | [ 0 elements ]                    | Array    |
| <input type="checkbox"/> | ownerId            | 5d5eb42aa7596f9d52f6ff52          | String   |
| <input type="checkbox"/> | worldAccess        | ReadWrite                         | String   |
| <input type="checkbox"/> | groupAccess        | [ 0 elements ]                    | Array    |
| <input type="checkbox"/> | userAccess         | [ 0 elements ]                    | Array    |
| <input type="checkbox"/> | vendor             | Vendor A                          | String   |
| <input type="checkbox"/> | model              | 3U PAY 16.2.3-5                   | String   |
| <input type="checkbox"/> | partNumber         |                                   | String   |
| <input type="checkbox"/> | seriesNumber       |                                   | String   |
| <input type="checkbox"/> | revisionNumber     | 1                                 | String   |
| <input type="checkbox"/> | manufacturedDate   | 2017-02-08 00:00:00.000Z          | Date     |
| <input type="checkbox"/> | type               | Payload                           | String   |
| <input type="checkbox"/> | form               | 3U                                | String   |
| <input type="checkbox"/> | moduleProfile      | [ 2 elements ]                    | Array    |
| <input type="checkbox"/> | slotProfile        | SLT3-PAY-2F2U-14.2.3              | String   |
| <input type="checkbox"/> | processors         | [ 2 elements ]                    | Array    |
| <input type="checkbox"/> | memory             | [ 3 elements ]                    | Array    |
| <input type="checkbox"/> | power5vInAmps      | 8.0                               | Double   |
| <input type="checkbox"/> | power3_3vInAmps    | 4.0                               | Double   |
| <input type="checkbox"/> | power3_3vAuxInAmps | 0.0                               | Double   |
| <input type="checkbox"/> | powerTotalInWatts  | 53.2                              | Double   |
| <input type="checkbox"/> | dataPlanes         | [ 1 element ]                     | Array    |
| <input type="checkbox"/> | controlPlanes      | [ 1 element ]                     | Array    |

- Repositories for searching and comparing
- Document generation
- Modeling, analysis, and simulation
- Automation
- Faster results

**OK, try this now...**

**Collaborate**

**Data model / taxonomy definition**

**Ecosystem – tools, repositories, data exchange**