

- **THE REALIZATION**

We are at **risk** (and **at sharp end of operation at all times**).

Increasingly (information systems) control power delivery, communications, aviation and financial services. They are used to store vital information, from medical records to business plans to criminal records. Although we trust them, they are vulnerable.

- Study report of the United States National Academy of Sciences, 1991.

- **THE OPPORTUNITY**

Information Integrity is the dependability and trustworthiness of information and it is the implicit goal of any information for the enterprise knowledge sharing and management for competitive advantage. Specifically, it is

- Accuracy,
- Consistency and
- Reliability of information.

**SEEING WHAT'S IN FRONT  
OF ONCE'S NOSE IS A  
CONSTANT STRUGGLE.**

- George Orwell, 1946

# **THE THESIS**

# **PASSING ON THE CONTROL BATON ...ONWARD MARCH OF CONTROL REVOLUTION**

- Successes in production automation sharply increased the volume and speed of energy conversion and material processing.
- This precipitated structured and periodic (fixed information decision) control responses for 'standard' product in high volume business model.

- With innovations in IT, the volume and speed of information processing and decision-making have undergone sharp increases.
- Even if IT innovations had been more gradual, due to system environmental factors of 5“C”s are:-
  - Complexity,
  - Change,
  - Communication,
  - Conversion,
  - Corruption,the ultimate result would have been the same.

- This is requiring businesses to pass on the control baton to *controlling Information Integrity* (i.e., degree of *correctness* aspect) of unstructured and aperiodic, i.e., **flexible** information decision, **which is an**
  - **information origination ,**
  - **evaluation and**
  - **processing****situation in the presence of uncertainty.**