

# IFIP

INTERNATIONAL FEDERATION FOR INFORMATION PROCESSING

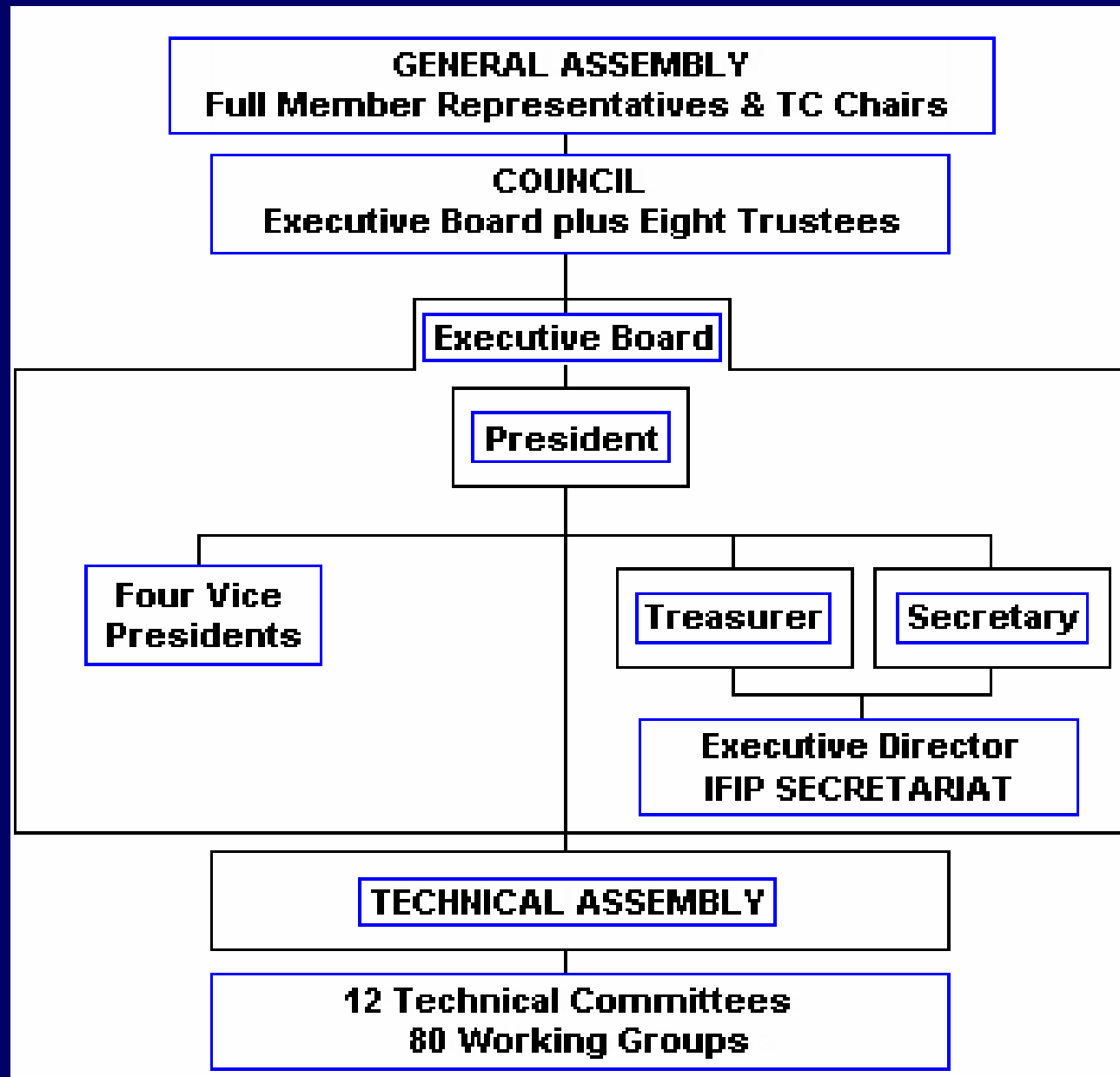
# IFIP - General

- IFIP was founded in 1960 under the auspices of UNESCO, as a result of the first World Computer Congress in 1959 in Paris.

# IFIP - Aims

- to foster international cooperation
- to stimulate research, development and applications
- to encourage education and the dissemination and exchange of information

on all aspects of computing and communication



# Technical Work

## Technical Committees and Specialist Groups, Working Groups

- Heart of IFIP
- Active participation of over two thousand people world-wide
- Each group is responsible for a specific area

# Technical Committees / Specialist Groups

- TC 1 Foundations of Computer Science
- TC 2 Software: Theory and Practice
- TC 3 Education
- TC 5 Computer Applications in Technology
- TC 6 Communication Systems
- TC 7 System Modelling and Optimization
- TC 8 Information Systems
- TC 9 Relationship between Computers and Society
- TC 10 Computer Systems Technology
- TC 11 Security and Protection in IPSs
- TC 12 Artificial Intelligence
- TC 13 Human - Computer Interaction
- SG 16 Entertainment computing

# IFIP - Publications

- Books
  - mostly proceedings (published by Kluwer Academic Publishers or, occasionally, Springer Verlag)
- Journals
  - e.g. Computers & Security, the official journal of TC-11 (published by Elsevier Science Publishers)
- Others

# IFIP - Events

## IFIP level

- World Computer Congress (WCC)  
flagship event
- 18th WCC, August 22-27, 2004 in  
Toulouse, France



- IFIP Calendar

[http://www.ifip.or.at/cal\\_even/htm](http://www.ifip.or.at/cal_even/htm)

# IFIP - Events

## IFIP level

- World IT Forum (WITFOR)

2003 – Vilnius, Lithuania

2005 – Gaborone, Botswana

WITFOR aims at assisting developing nations to implement sustainable strategies for the application of ICT and will initiate projects in different areas of the ICT spectrum.

# IFIP - Events

## TC / SG level

- SEC (TC-11)
- CMS (TC-6 / TC-11)
- I3E (TC-6 / TC-8 / TC-11)
- etc.

# IFIP - Events

## Working group level

- IICIS (wg 11.5)
- CARDIS (wg 8.8 / wg 11.2)
- etc.

**in total 80 - 100 events annually**

# TC-11

- WG 11.1 Information security management
- WG 11.2 Small systems security
- WG 11.3 Data and application security
- WG 11.4 Network and communication security
- WG 11.5 Integrity and internal control in information systems
- WG 9.6 / 11.7 IT misuse and the law
- WG 11.8 Security education

# Other “security” groups

- WG 1.7 Theoretical foundations of security analysis and design
- WG 8.8 Smart cards
- WG 9.6 / 11.7 IT misuse and the law
- WG 10.4 Dependable computing and fault-tolerance
- WG 13.5 Human error, safety and system development

# Views of TC-11 on developments and directions

- holistic approach
- information processing environment
- standards framework
- visions from the engine room

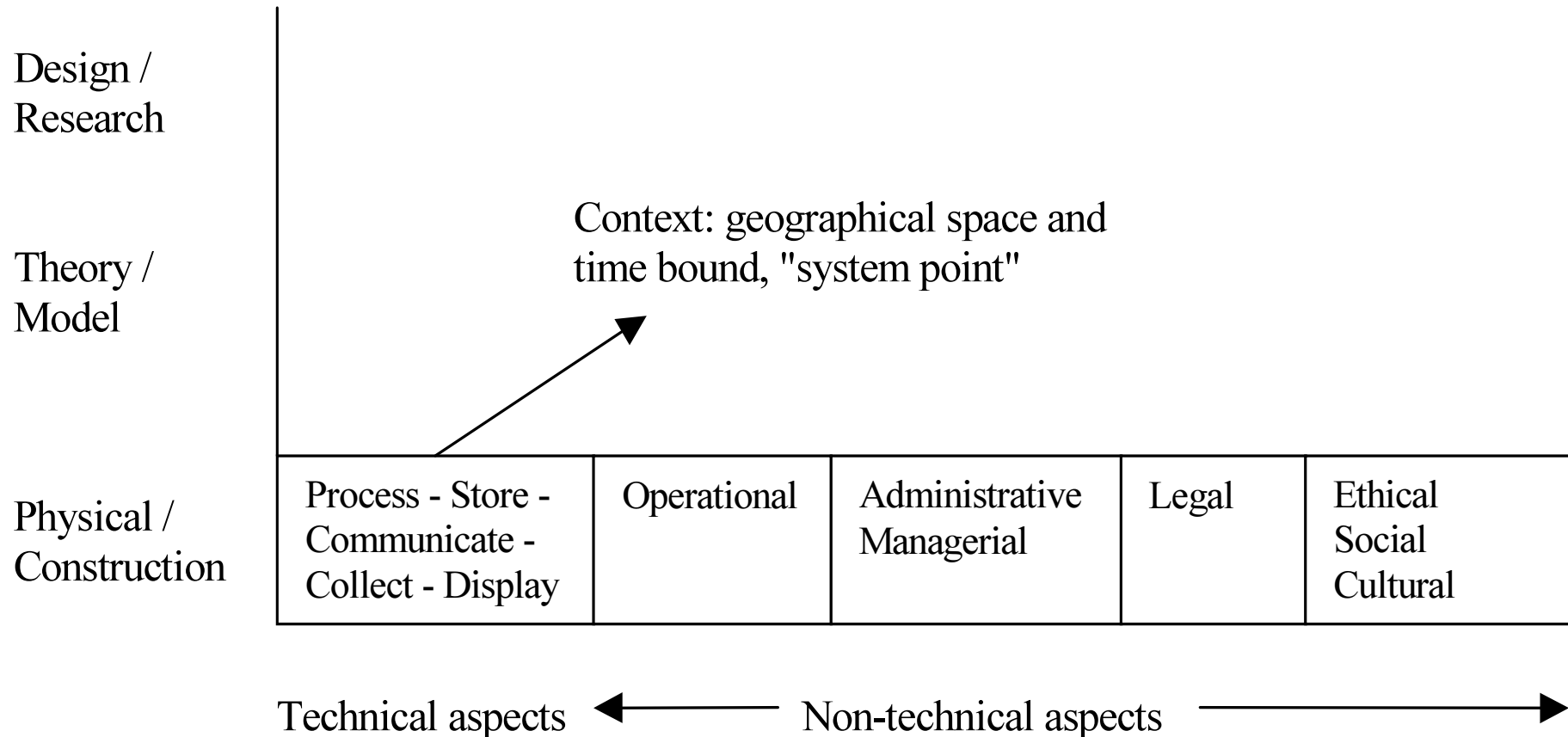
# Holistic approach

Louise Yngström, 1995

(paper “A holistic approach to IT security” pp 98-109 in “Information Security - the next decade”, the proceedings of SEC 1995, ISBN 0-412-64020-1, Chapman & Hall, edited by Jan H.P. Eloff and Sebastiaan von Solms)

- Dimensions:
  - content / subject areas
  - levels of abstraction
  - context

# Holistic approach

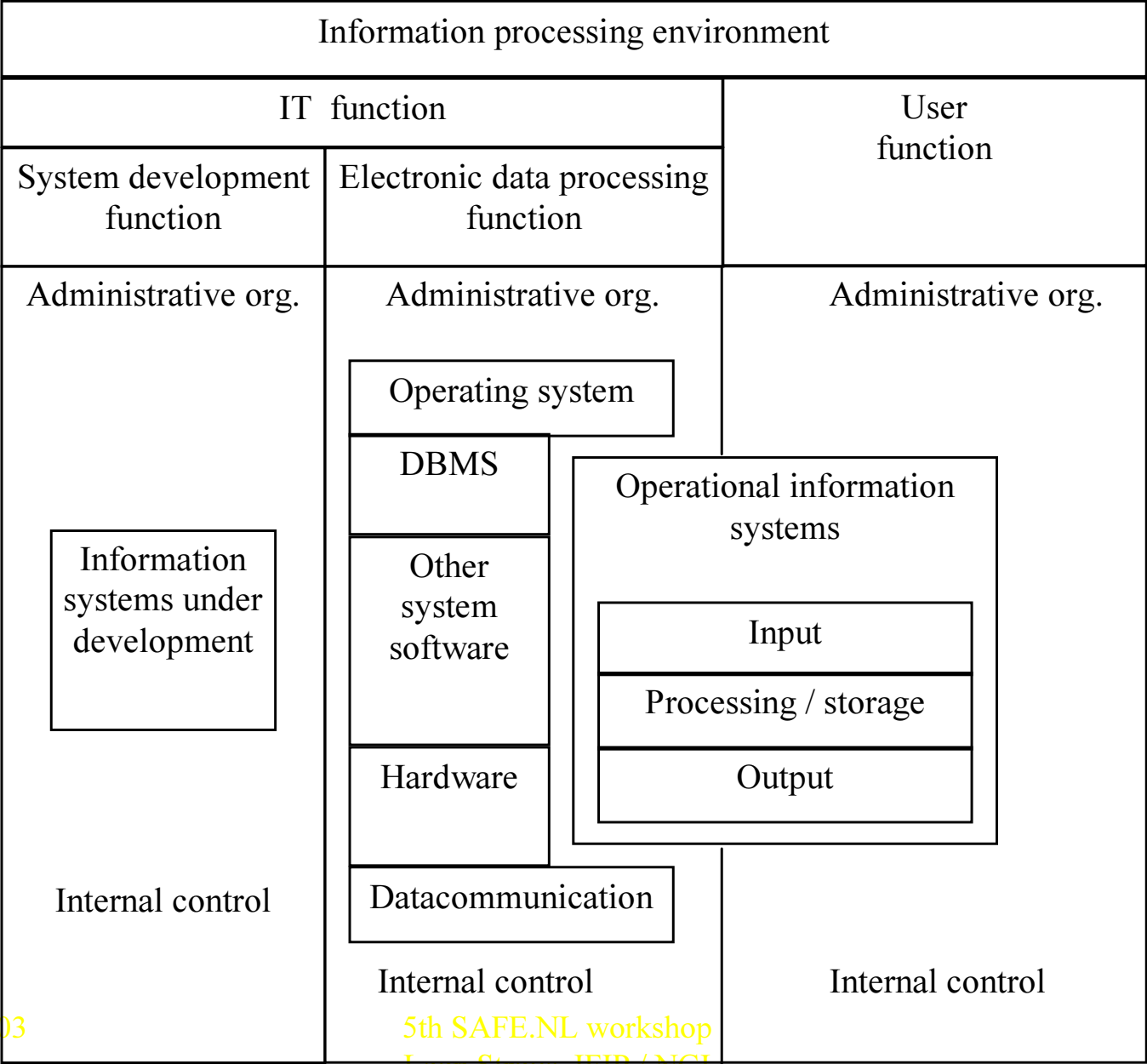


# Information processing environment

Leon Strous, 1997

(paper “Integrity: definition, subdivision, challenge” pp 187-194 in “Integrity and internal control in information systems, Volume 1: Increasing the confidence in information systems”, the proceedings of IICIS 1997, ISBN 0-412-82600-3, Chapman & Hall, edited by Sushil Jajodia, William List, et.al.)

- IT function / User function
- Development / Processing
- IT / AO - IC



# Standards framework

Leon Strous / Basie von Solms, 2003

(work in progress on a book on security standards)

- Governance / control
- Management
- Technical
- Audit / compliance
- Professionalism / ethics

# Standards framework

<b>IT-Audit</b> Professional standards	<b>IT-Audit</b> Technical standards	<b>(Corporate) governance</b> standards, guidelines and best practices	<b>IT experts</b> Professional standards	<b>Endusers</b> standards
		<b>(Internal) control</b> standards, guidelines and best practices		
		<b>(IT) management</b> standards, guidelines and best practices		
		<b>(Information) security management</b> standards, guidelines and best practices		
		<b>Technical (security)</b> standards, guidelines and best practices		

# Visions from the engine room

- “Embedded” security
- Interdisciplinary cooperation
  - within / outside security world
  - within / outside IT environment

# Visions from the engine room

- *Accountability / liability*
- *Education and certification requirements for security professionals*

# Visions from the engine room

- New threats / persistent old threats
  - Cyberterrorism / infrastructure protection
  - Spam
  - Viruses / hackers

# Visions from the engine room

- Standards development
- Evaluation / certification

# Visions from the engine room

- Politics / economics
- Fundamental / applied research

# Visions from the engine room

- Hype or lasting
  - biometrics
  - pki
  -

# Thank you

- Questions
- Views
  
- [www.ifip.org](http://www.ifip.org)
- [www.ifip.tu-graz.ac.at/TC11](http://www.ifip.tu-graz.ac.at/TC11)
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