

Sistem Informasi

(Isu Berkaitan Dengan Etika Profesi)

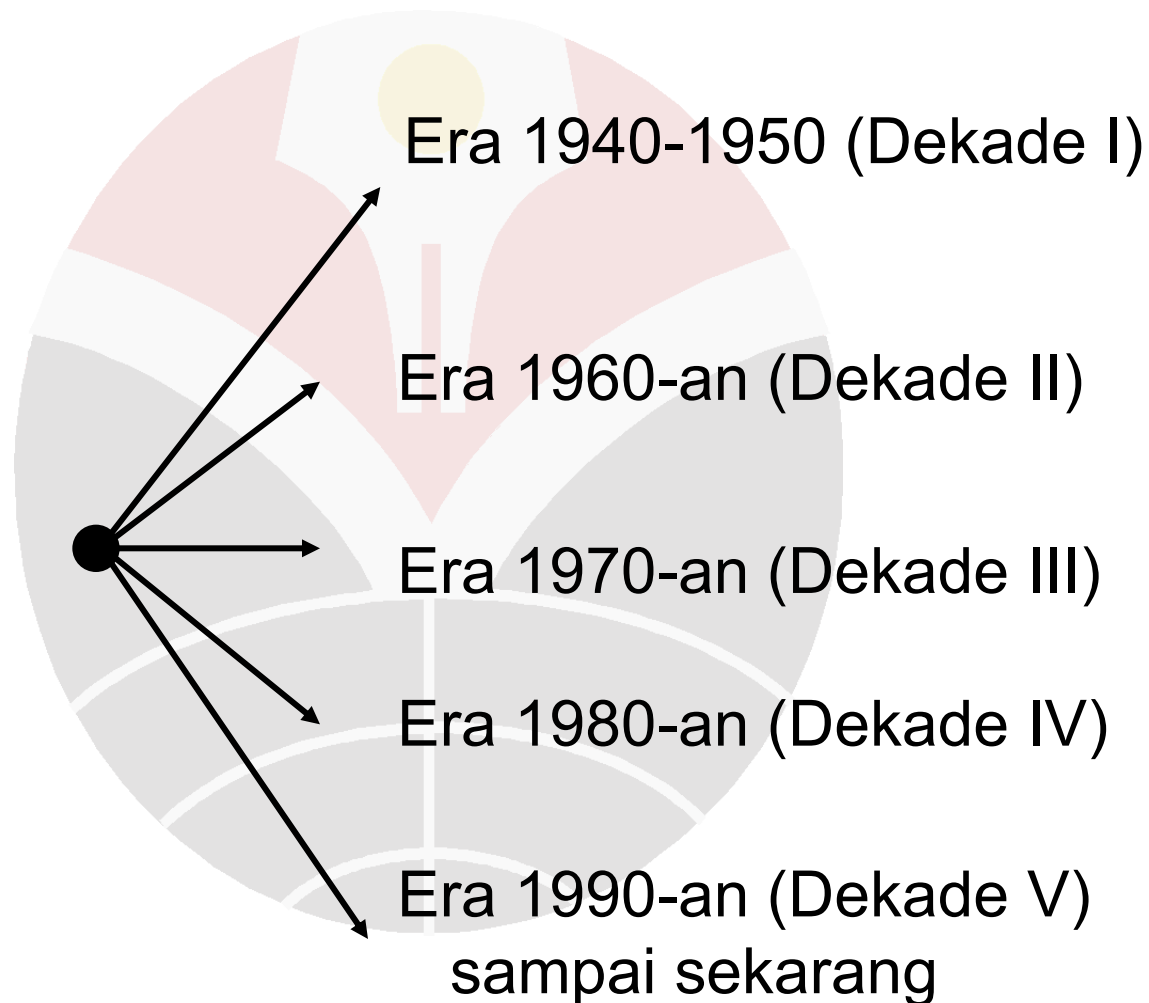
**Asep Wahyudin, S.Kom, M.T.
Ilmu Komputer**

FPMIFA - Universitas Pendidikan Indonesia



SEJARAH

Sejarah Etika Informatika & Komputer



SEJARAH (1940-50 / Dekade I)

Perang Dunia II (awal 1940-an) ↔ Norbert Wiener (MIT)

Cybernetics /
The Science of Information Feedback Systems

Revolusi sosial dan konsekuensi etis dari perkembangan teknologi informasi

“... we are already in a position to construct artificial machines of almost any degree of elaborateness of performance. Long before Nagasaki and the public awareness of the atomic bomb, it had occurred to me that we were here in the presence of another social potentiality of unheard-of importance for good and for evil ... ”

SEJARAH (1960-an / Dekade II)

*“ that when people entered the computer center, they left
they ethics at the door ” Don Parker*

Rules of Ethic in Information Processing

*(1968)
The Professional Ethics Code
for
ACM (Assosiation for Computing Machinery)*



SEJARAH (1970-an / Dekade III)

Joseph Wiezenbaum (MIT)



Program ELIZA
(program untuk psikoterapi)

Computer Power and
Human Reason (1976)



Etika Komputer



Walter Manner (1970-80an)



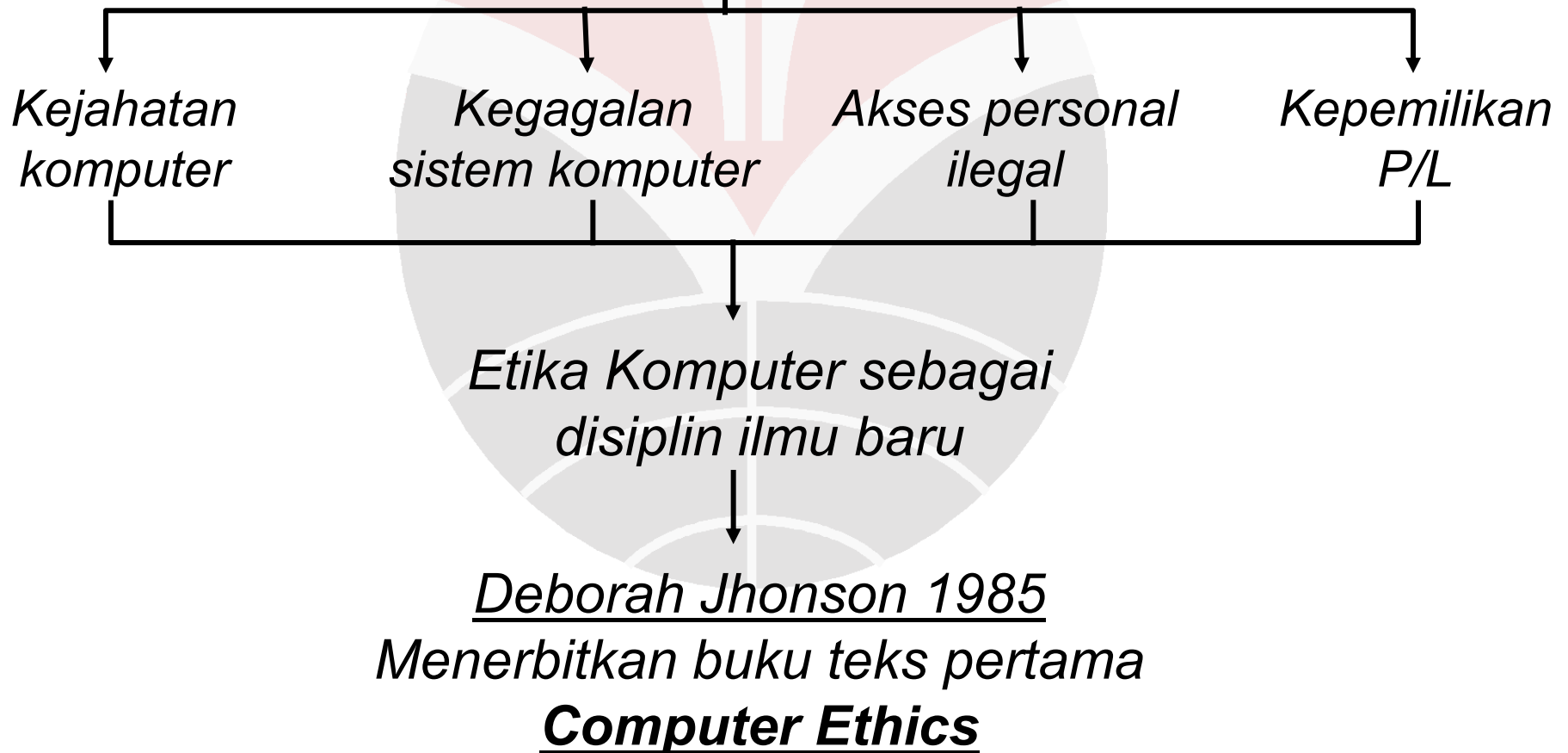
Computer Ethics
Bidang pemeriksaan yang
berhadapan dengan
permasalahan etis yang
diciptakan oleh pemakai
teknologi komputer

Starte Kit in Computer Ethics
(material kurikulum dan
pedagogi pendidikan etika
komputer)



SEJARAH (1980-an / Dekade IV)

Isu Publik (Amerika dan Eropa):
Konsekwensi sosial dan teknologi informasi



SEJARAH (1990-an sampai sekarang/ Dekade V)



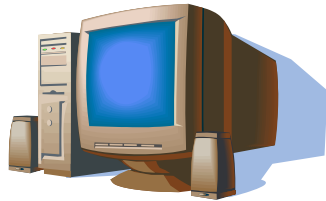
Etika Komputer memasuki tahap ‘*second generation*’

Simon Rogersen (De Monfort University) :

“The mid 1990s has heralded the beginning of a second generation of Computer Ethics. The time has come to build upon and elaborate the conceptual foundation, in parallel, developing the framework within which practical action can occur, thus reducing the probability of unforeseen effect of information technology application ”

Etika komputer menjadi salah satu bidang ilmu utama yang terus dikembangkan mengikuti perkembangan teknologi komputer

CAKUPAN



memberikan aktivitas
apapun untuk membantu
tugas manusia



'logically malleable'

potensi aplikasi
luas

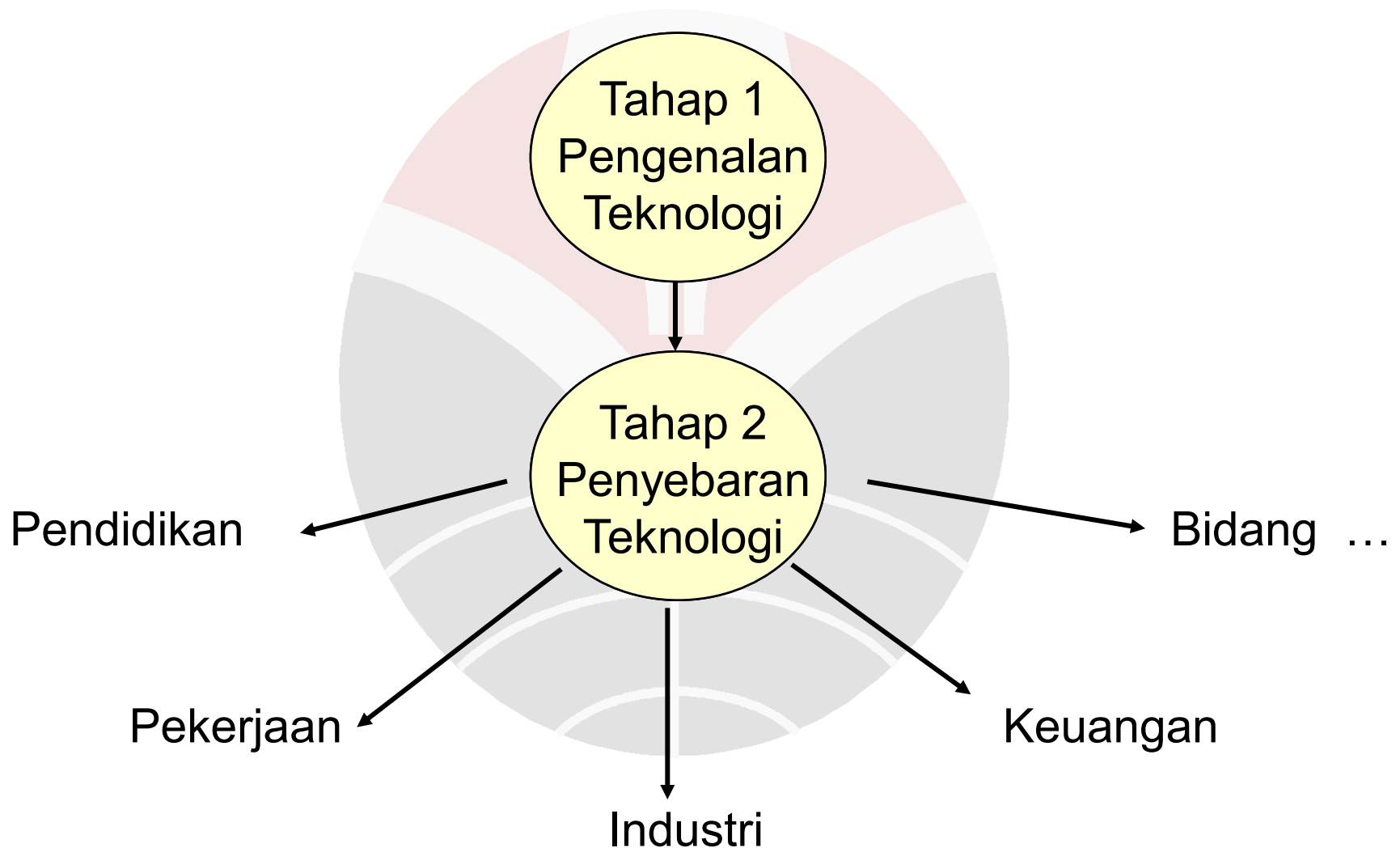
revolusi
komputer

integrasi dengan aktivitas
manusia, institusi sosial,
merubah seluruh konsep
pokok manusia (uang,
pendidikan, kerja,
penentuan pilihan, dsb)

Masalah
Baru
?

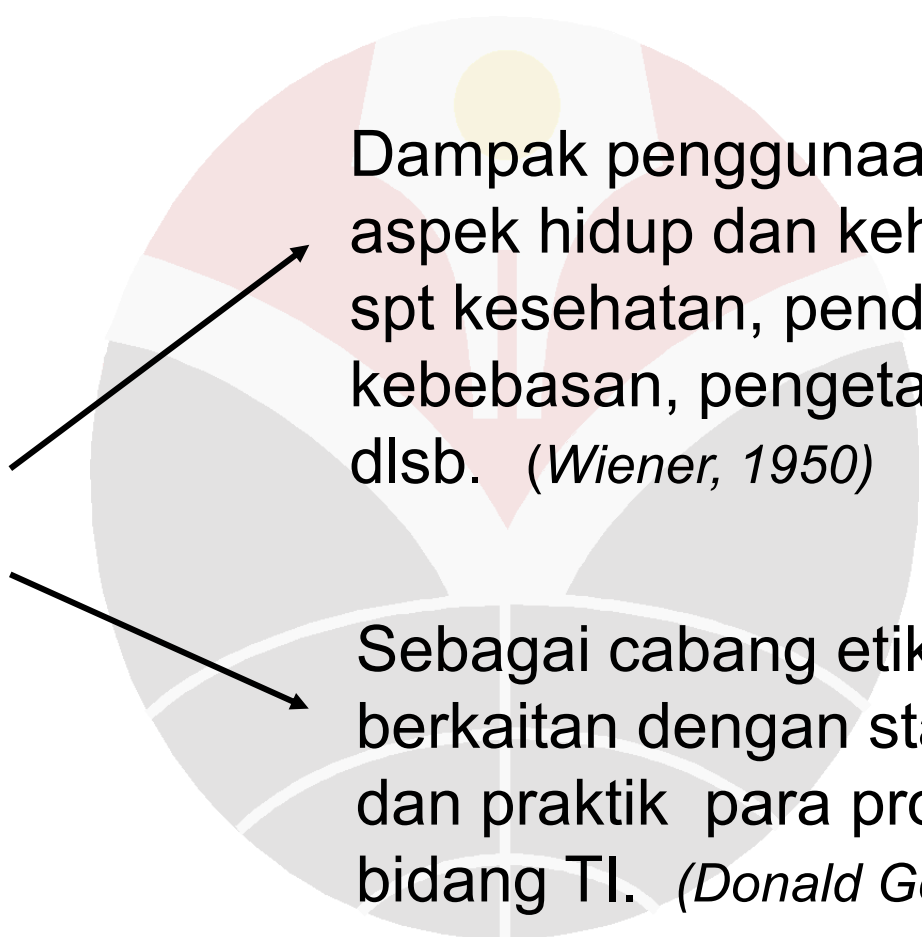


REVOLUSI KOMPUTER → MANUSIA/MASYARAKAT



CAKUPAN

Etika Komputer



Dampak penggunaan TI terhadap aspek hidup dan kehidupan manusia spt kesehatan, pendidikan, demokrasi, kebebasan, pengetahuan, keamanan, dlsb. (*Wiener, 1950*)

Sebagai cabang etika profesional berkaitan dengan standar kode dan praktik para profesional bidang TI. (*Donald Gotterbarn, 1990*)



PERMASALAHAN POKOK TERKAIT

Kejahatan Komputer / *computercrime*

(kejahatan yang ditimbulkan karena penggunaan komputer secara ilegal; carding, penyadapan, *Denial of Service* dll.)

Cyber Ethics

(aturan dan prinsip pemanfaatan / komunikasi via internet.)

E-Business

(aturan dan prinsip serta aspek hukum bisnis via net (extranet dan internet))

Pelanggaran Hak Kekayaan intelektual

(pembajakan P/L, *softlifting*, penjualan dan penyewaan ilegal. Realitas Indonesia peringkat 3 pembajakan P/L berdasarkan survei *Business Software Alliance 2001.*)

Tanggung Jawab Profesi

(hubungan profesi dengan profesi lain dan sesama profesi → kode etik, organisasi profesi (ACM, IEEE, IPKIN))

ETHICAL DILEMMAS *(IT for Management, E. Thurban, et.all, 2001)*

- 1. Is it acceptable to buy a software product, but then to install it twice ?*
- 2. How about if you install it, and give it to a friend for personal use ?*
- 3. Alternatively, what if you install it and use a CD writer to create 100 copies, and sell them for profit to anyone who whises to buy ?*
- 4. What about making the software available on a Web site for other to download ?*
- 5. What about trading software on the Web (costumer to customer) ?*

--- You may be surprised to discovered that there are no correct answer to theses questions ---

Issue in IT Ethics *(IT for Management, E. Thurban, et.all, 2001)*

1. *Code of ethics*
2. *Intellectual property rights*
(digital property: software, film and music, trademark patent, blueprint and books)
3. *Accountability*
(for actions and nonactions)
4. *Personal and data privacy*
(including 'dataveillance', electronic monitoring, data accuracy and acessibility)
5. *Freedom speech vs. cencorship*
6. *Ownership of information*

APPENDIX (Computing Organization Worldwide and Web Sites For finding IT code of ethics)

Organization

- *Association for Computing Machinery*
- *Australian Computer Society*
- *British Computer Society*
- *Canadian Information Processing Society*
- *Computer Society of South Africa*
- *Hong Kong Computer Society*
- *Institute of Electrical and Electronics Engineering*
- *Singapore Computer Society*

Address of Web Sites

-  *acm.org/*
-  *acs.org.au/*
-  *bcs.org.uk/*
-  *cips.ca/*

-  *cssa.org.za/*
-  *hkcs.org.hk/*
-  *ieee.org/*

-  *scs.org.sg/*

