

Sumber Daya Informasi



INFORMASI:

 data yang telah diolah menjadi suatu bentuk yang penting bagi si penerima dan mempunyai nilai yang nyata yang dapat dirasakan dalam keputusan-keputusan saat ini atau keputusan-keputusan yang akan datang

Definisi

Sumber Daya Informasi

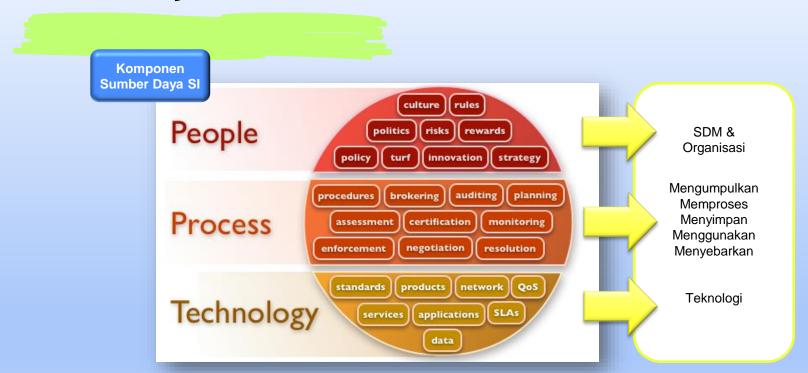


SISTEM INFORMASI:

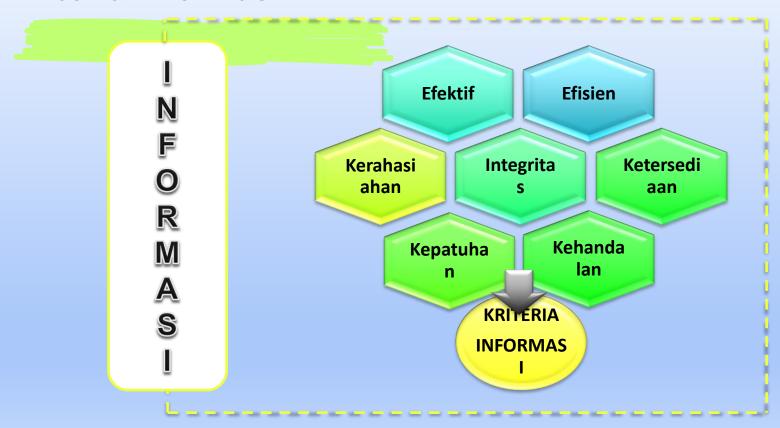
 sistem yang mempunyai fungsi mengumpulkan, memproses, menyimpan, menganalisis, dan menyebarkan informasi untuk tujuan yang spesifik

Definisi

Sumber Daya Informasi



Kriteria Informasi



Sumber Daya Teknologi Informasi



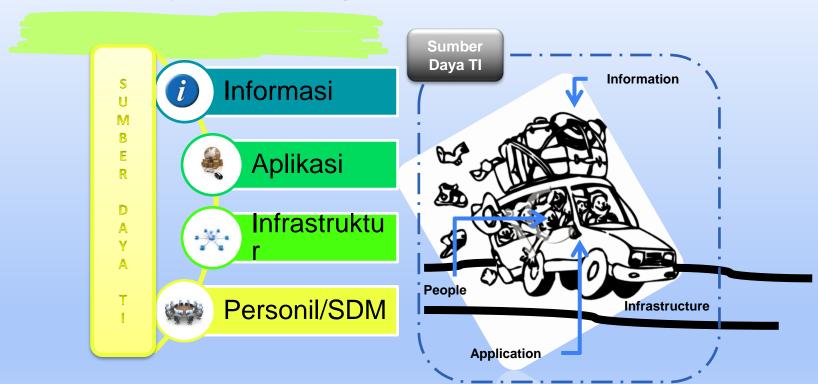
TEKNOLOGI INFORMASI:

 Menggambarkan koleksi dari sistem informasi pada suatu organisasi dan para penggunanya, dimana pengelolaannya dilakukan oleh pihak manajemen organisasi

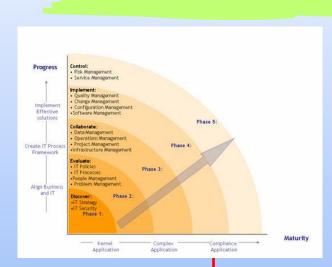
TI terdiri dari perangkat keras, perangkat lunak, basis data, jaringan dan perangkatperangkat elektronik lainnya, termasuk perangkat komunikasi (data, suara, video)

Definis

Sumber Daya Teknologi Informasi



Tata Kelola Teknologi Informasi



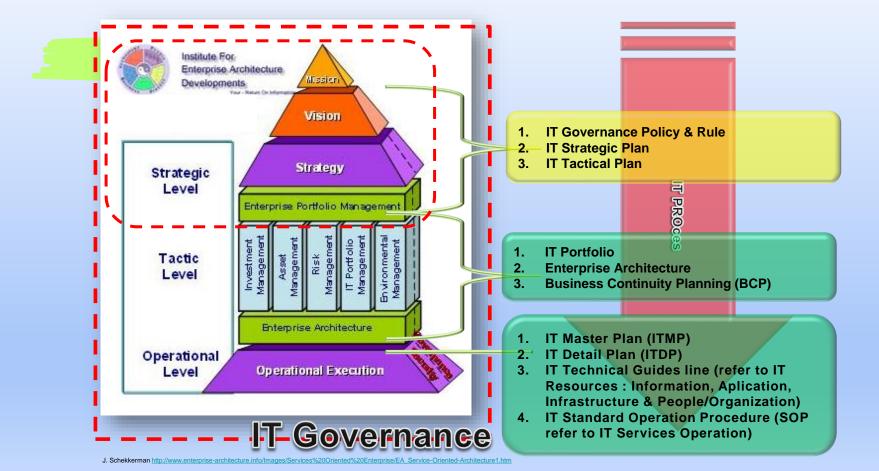
rata kelola teknologi informasi :

 Bagaimana organisasi dapat menyelaraskan strategi TI dengan strategi bisnis, memastikan bahwa organi sasi tetap pada jalurnya dalam mencapai strategi dan tujuan, serta menerapkan cara yang terbaik untuk mengukur kinerja TI

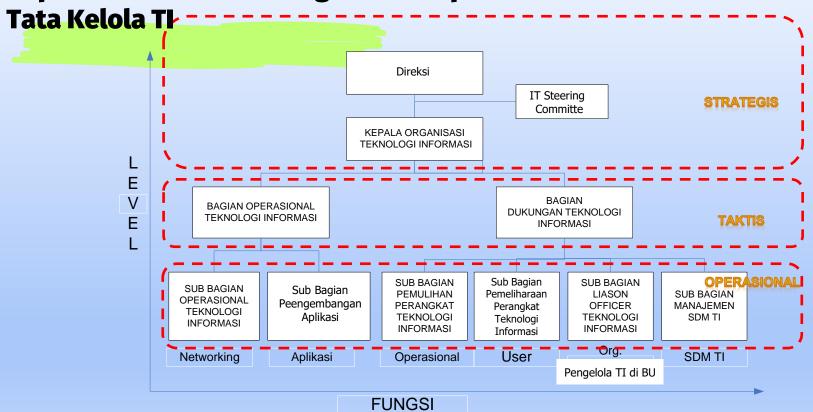
Hal ini memastikan bahwa kepentingan semua pemangku kepentingan telah diperhitungkan dan proses dilakukan dapat memberikan hasil yang dapat terukur.



Tata Kelola TI & Produknya

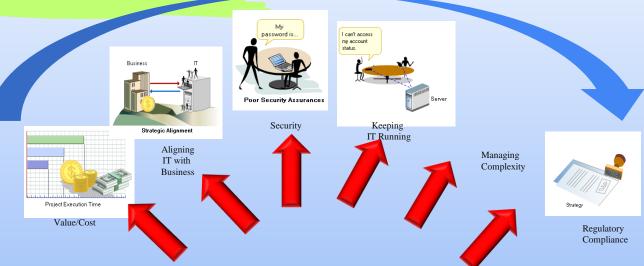


Representasi Struktur Organisasi TI pada



Prinsip Tata Kelola TI

Kebutuhan Tata Kelola Ti

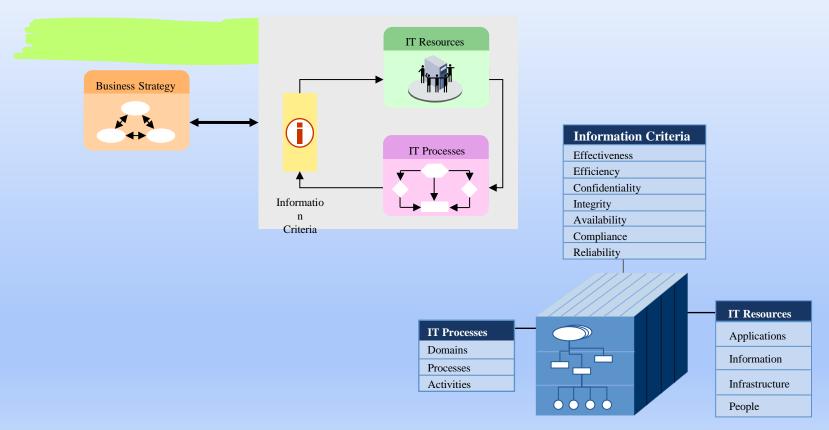




Fokus Strategi

Menilai dampak kompetitif dari TI Memastikan keselarasan antara strategi TI & investasi TI berdasarkan sumber daya yang dimiliki

Best Practice IT Governance



Benefits of IT Governance

	IT Governance Discipline	Typical Benefits and Impacts
1	IT Strategy Governance: Ensure alignment of IT investments with business priorities, and tracking, monitoring and improvement of business-IT engagement.	* Strategic Alignment: 10% to 15% improvement based on enhanced perception of value from IT. * Value Delivery: Enhancement in overall value from IT throughbetter management of IT investments.
2	Architecture Governance:	* Performance Management and
	Promote standardization in the application and technology portfolio and drive alignment of solution architecture to overall technology and reference architecture.	Resource Management: 15% to 20% increase in level of architecture reuse *Risk Management: 5% to 10% fewerisks through reuse of timetested architectural components.
3	Project & Portfolio Governance:	* Strategic Alignment: 10% to 15%
	Govern sequencing of the project portfolio to maximize operating efficiency, and enable identification and mitigation of project portfolio risks.	improvement based on enhanced value from the project portfolio. Performance Management and Resource Management: » 10% to 15% improvement in project quality through peer reviews, phase reviews and project review board governance. » 15% to 20% improvement in onbudget delivery of projects.
4	Application Lifecycle Governance:	Performance Management and Resource Management: 10% to 15% cost avoidance through maintenance of an optimal application portfolio.
20	Control key facets of introduction, management and sunsetting of applications.	

5	Infrastructure and Data Governance: Optimize technology infrastructure costs and establish controls over organizational information assets.	* Performance Management and Resource Management: Reduction in overall infrastructure costs and data/information security costs through improved controls. *Risk Management: 5% to 10% fewer risks through leverage of standardized infrastructure components.
6	Vendor and Sourcing Governance:	* Performance Management:
	Ensure services provided by vendors deliver adequate business value, and reduce the business risk associated with nonperforming vendors.	Improvement in quality of vendor services through better measurement, tracking and driving uplift of vendor performance. * Resource Management: 20% to 25% reduction in average vendor onboarding time and effort. * Risk Management: 10% to 20% reduction in vendor-related risks.
7	Service Lifecycle Governance: Minimize or eliminate unauthorized changes into production environments, and maintain service and operational levels that promote business-IT alignment.	Performance Management: 20% to 35% reduction in number of unauthorized changes in the production environment.
8	New Age Technology Governance: Improve IT operating efficiency by adopting new age technologies, and minimize any risks associated with the same.	*Performance Management and Resource Management: 20% to 25% improvement in operating efficiency post steady state.























Framework Tata Kelola TI

- ITIL (IT Infrastructure Library)
- COSO
- ISO 17799
- ISO/IEC 17799:2000
- ISO/IEC TR 13335
- ISO/IEC 15408
- TickIT
- NIST 800-14
- ASL
- SAC
- SAS70

- BS 15000
- SysTrust
- PRINCE2
- SOX
- Six Sigma
- CMM/CMMI
- SASs
- COBIT
- TOGAF
- FISMA

Framework Tata Kelola TI

Framework yang sering dijadikan acuan oleh instistusi untuk membangun Tata Kelola TI (hasil survey ITGI):

- 1.COBIT
- **2.IT Infrastructure Library**
- 3.ISO 17799
- 4.ISO 27000
- 5.ISO/EIC 38500
- **6.Australian Standart 8015**
- * Serta yang bersifat lokal/nasional

MODEL TATAKELOLA TEKNOLOGI INFORMASI (1)

1. The IT Infrastructure Library (ITIL)

ITIL dikembangkan oleh The Office of Government Commerce (OGC) suatu badan dibawah pemerintah Inggris, dengan bekerja sama dengan The IT Service Management Forum (itSMF) dan British Standard Institute (BSI)

ITIL merupakan suatu framework pengelolaan layanan TI (IT Service Management – ITSM) yang sudah diadopsi sebagai standar industri pengembangan industri perangkat lunak di dunia.

MODEL TATAKELOLA TEKNOLOGI INFORMASI (3)

2. ISO/IEC 17799

ISO/IEC 17799 dikembangkan oleh The International Organization for Standardization (ISO) dan

The International Electrotechnical Commission (IEC) ISO/IEC 17799 bertujuan memperkuat 3 (tiga) element dasar keamanan informasi, yaitu:

- 1. Confidentiality memastikan bahwa informasi hanya dapat diakses oleh yang berhak.
- 2. Integrity menjaga akurasi dan selesainya informasi dan metode pemrosesan.
- 3. Availability memastikan bahwa user yang terotorisasi mendapatkan akses kepada informasi dan aset yang terhubung dengannya ketika memerlukannya

MODEL TATAKELOLA TEKNOLOGI INFORMASI (5)

3. **COSO**

COSO framework terdiri dari 3 dimensi yaitu:

COSO mengidentifikasi 5 komponen kontrol yang diintegrasikan dan dijalankan dalam semua unit bisnis, dan akan membantu mencapai sasaran kontrol internal:

- a. Monitoring.
- b. Information and communications.
- c. Control activities.
- d. Risk assessment.
- e. Control environment.

Framework Design



Informasi



rovide a good return on investment of IT-engitled business investments

riprove corporate governance and transparency.

Offer competitive products and services.

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7 8 11 13 5 25 29

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1. Fokus Pada Bisnis

Tujuan Bisnis & Tujuan TI

Sumber Daya TI

FRAMEWORK COBIT VER 4.1

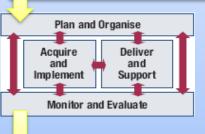
Keselarasan Organisasi - TI

Manajemen Nilai TI

Penilaian Kondisi TI Saat Ini

Pendefinisian Renstra TI

2. Orientasi Pada Proses



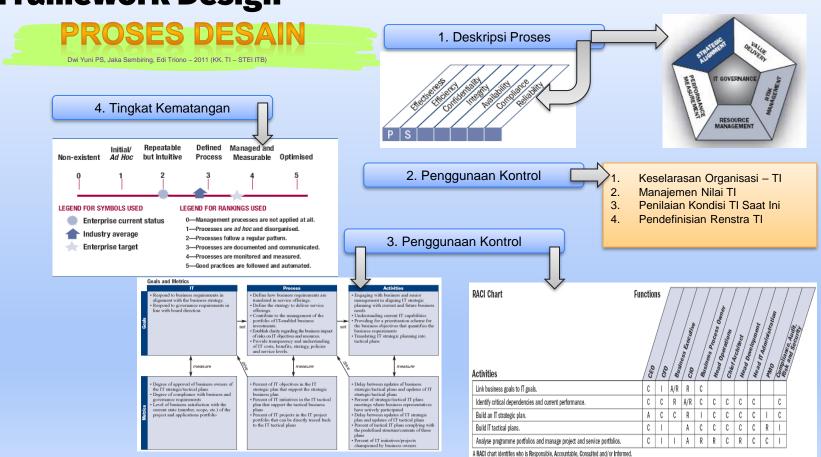
- Define a Strategic IT Plan
- P02 Define the Information Architecture
- P03 Determine Technological Direction
- P04 Define the IT Processes, Organisation and Relationships
- P05 Manage the IT Investment
- Communicate Management Aims and Direction
- P07 Manage IT Human Resources
- P08 Manage Quality
- Assess and Manage IT Risks
- P010 Manage Projects

4. Pengukuran

3. Penggunaan Kontrol

Repeatable Manas, and Defined Measurable Optimised

Framework Design



Tahap Perancangan

Step 1 - Profile
 Visi, Misi, Nilai, Tujuan Organisasi
 Kebijakan, Layanan, Sasaran TI
 Kondisi TI Saat Ini & Yang Diharapkan
 Tingkat Kematangan Proses TI
 Struktur Organisasi Eksisting
 Keselarasan Organisasi - TI

Step 3 - Analisis

 Strategi Pengorganisasian TI Dalam Kerangka Rencana Strategi TI

Layanan TI, Sumber Daya TI,

Step 4 -Rancangan

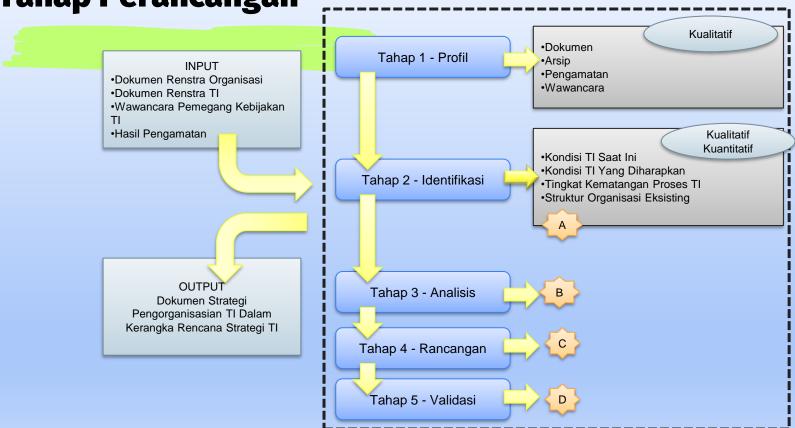
Step 5 – Implementasi

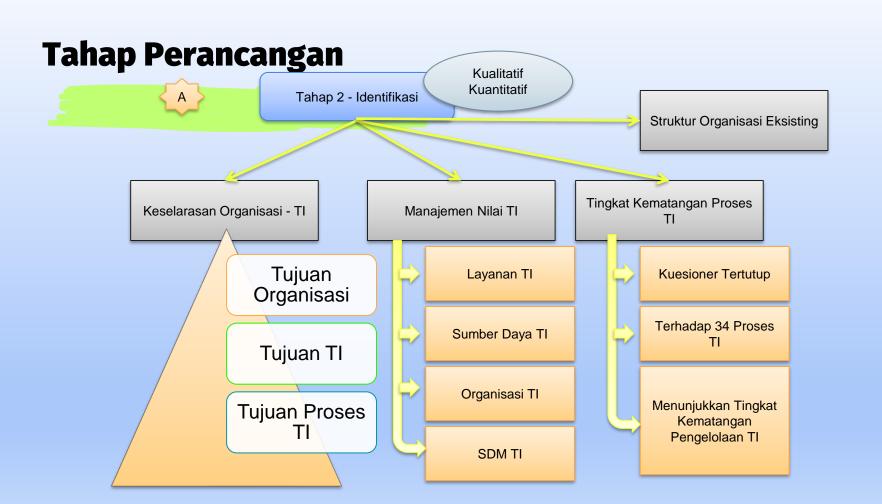
Implementasi

Kesenjangan

- Monitor
- Evaluasi

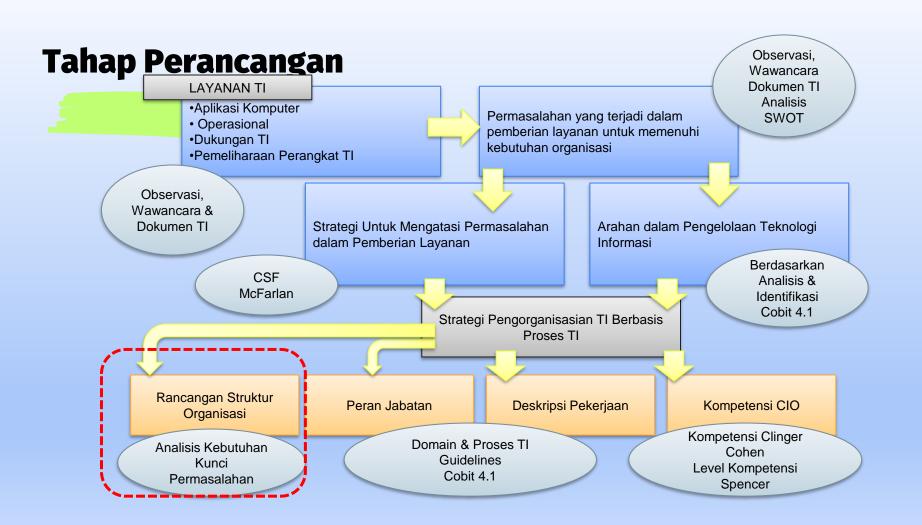
Tahap Perancangan





Tahap Perancangan





Terima Kasih