

INFORMATION SYSTEM & TECHNOLOGY

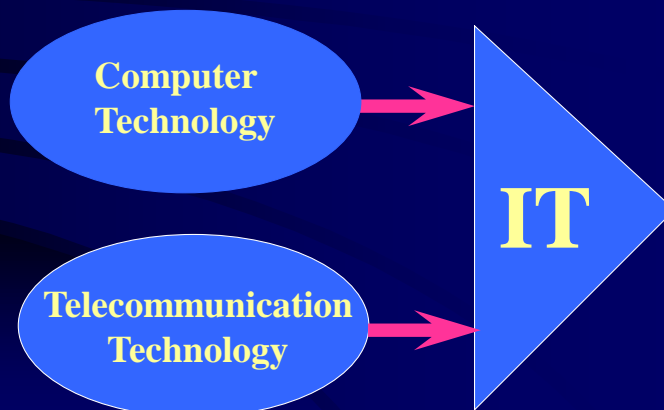
by
Kudang B. Seminar, PhD

2/9/2015

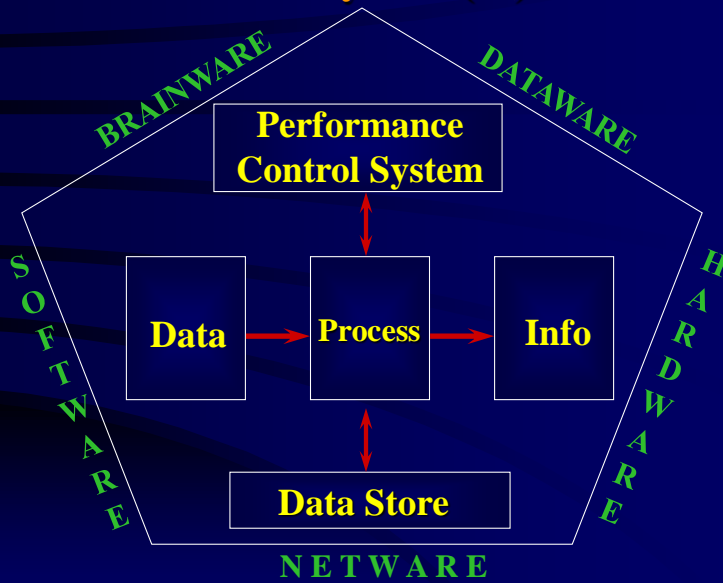
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Definition of Information Technology

Information Technology (IT) is an electronic technology for the acquisition, processing, storing, & retrieving of data and the production & delivery of information. (**Gunton, 1994**)



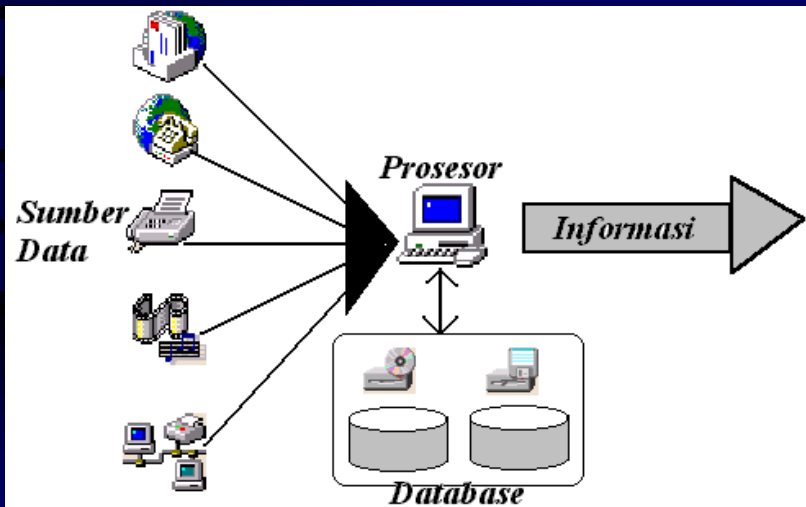
Information System (IS) Model



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Information Production



Data vs Information

Data: *raw facts or observations*

Information : *data that have been transformed into a meaningful and useful context for specific end users*

Data

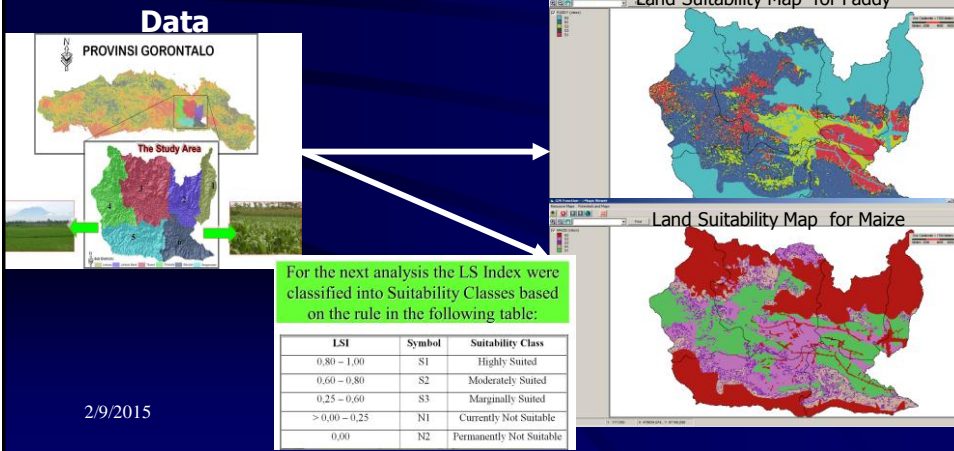
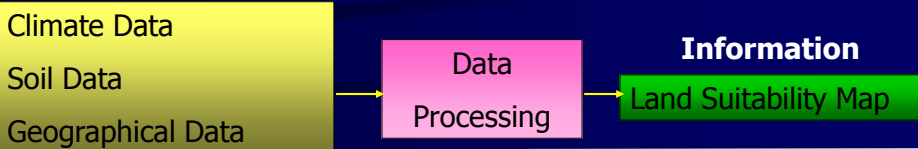
Information



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Data vs Information



Data
Information

Data Sales person
Sales Values
Sales Units

Data Processing

Sales Analysis

Last Name: v		Buchanan	Callahan	Davolio	Dodsworth	Fuller	King	Grand Total
Years	Quarters	Total Sales	Total Sales	Total Sales	Total Sales	Total Sales	Total Sales	Total Sales
1996	Qtr3	\$3,056.82	\$11,040.00	\$8,892.48	\$4,364.30	\$4,143.60	\$1,686.00	\$33,185.20
	Qtr4	\$14,608.38	\$6,120.70	\$21,969.28	\$5,500.21	\$13,667.86	\$13,546.16	\$77,442.59
	Total	\$17,665.20	\$19,160.70	\$30,861.76	\$9,864.51	\$17,811.46	\$15,232.16	\$110,627.79
1997	Qtr1	\$3,237.12	\$19,892.23	\$17,885.62	\$966.80	\$11,434.38	\$15,108.34	\$68,624.69
	Qtr2	\$6,647.67	\$8,886.72	\$15,925.56	\$5,692.28	\$22,136.67	\$16,437.32	\$75,528.62
	Qtr3	\$12,395.80	\$9,649.99	\$32,384.91	\$5,285.05	\$16,148.80	\$30,263.93	\$86,718.48
	Qtr4	\$8,572.57	\$16,625.08	\$29,644.07	\$12,468.76	\$21,448.29	\$8,017.00	\$88,775.77
	Total	\$31,433.16	\$66,954.02	\$95,850.36	\$24,412.89	\$71,168.14	\$69,827.19	\$339,645.76
1998	Qtr1	\$19,481.89	\$27,030.05	\$26,351.00	\$31,513.21	\$36,882.56	\$19,757.48	\$161,016.99
	Qtr2	\$2,710.00	\$30,897.10	\$34,214.23	\$10,629.43	\$36,907.62	\$24,802.41	\$127,480.79
	Total	\$19,691.89	\$47,727.95	\$60,565.23	\$42,142.64	\$73,790.18	\$44,559.89	\$288,477.78
	Grand Total	\$68,792.25	\$123,842.67	\$187,277.35	\$76,460.04	\$162,769.78	\$119,619.24	\$736,751.33

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Fundamental Roles of IS in Business

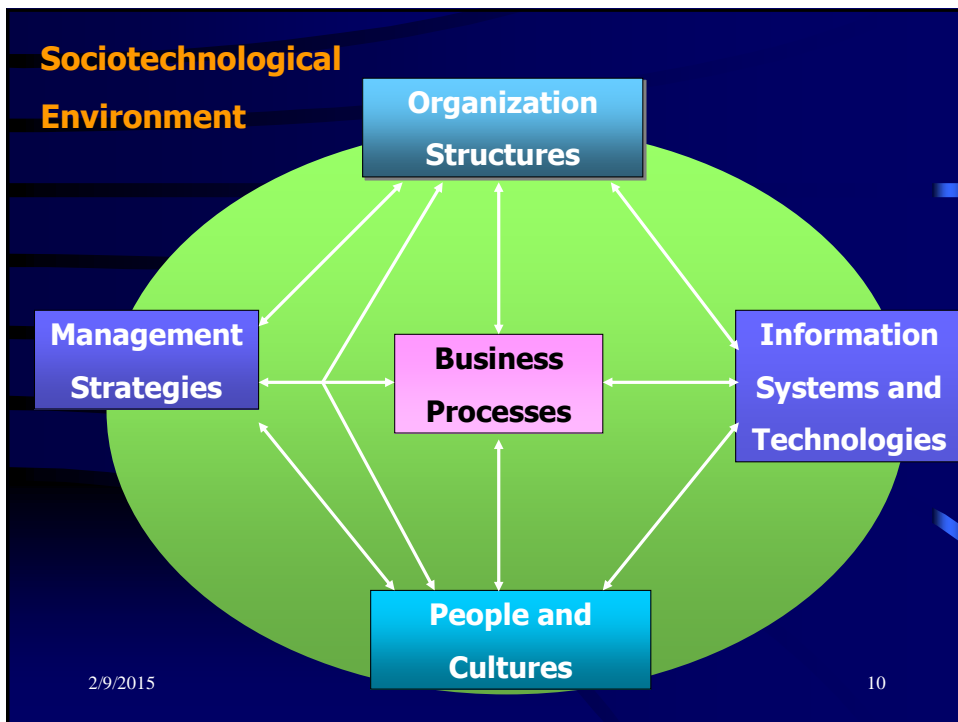
Information Systems

Chapter 1 Foundations of Information Systems in Business

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The IS Function

- The IS function is...
 - A major functional area of business
 - An important contributor to operational efficiency, employee productivity, morale, customer service and satisfaction
 - A major source of information and support for decision making
 - A vital ingredient in developing competitive products and services in the global marketplace
 - A dynamic and challenging career opportunity
 - A key component of today's networked business



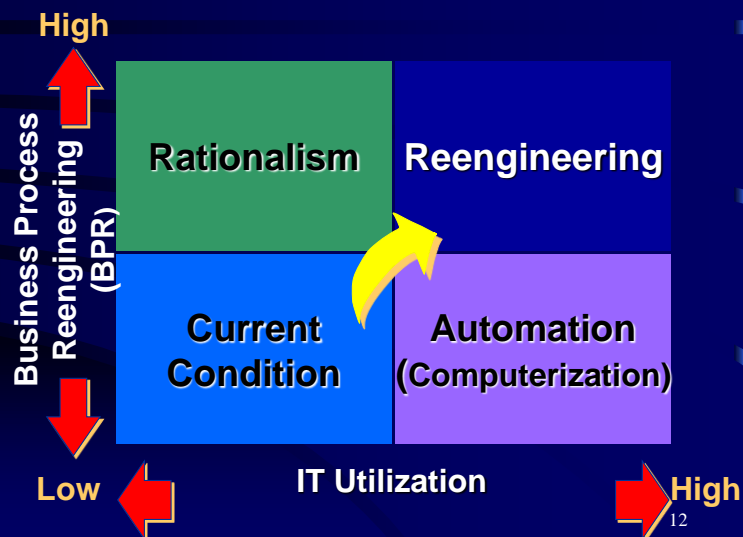
Role of Technologies

- “Technology is the *technical means* people use to improve their surroundings. It is also *knowledge of using tools and machines to do tasks efficiently*.” (www.bergen.org/technology/defin.htm 1).
- Engineering (*ingenerare*) : *menciptakan (to create)*; Engineering : “professional art of applying science to the optimum conversion of the resources of nature to the benefit of man “ (**Encyclopedia Britannica 1974**)

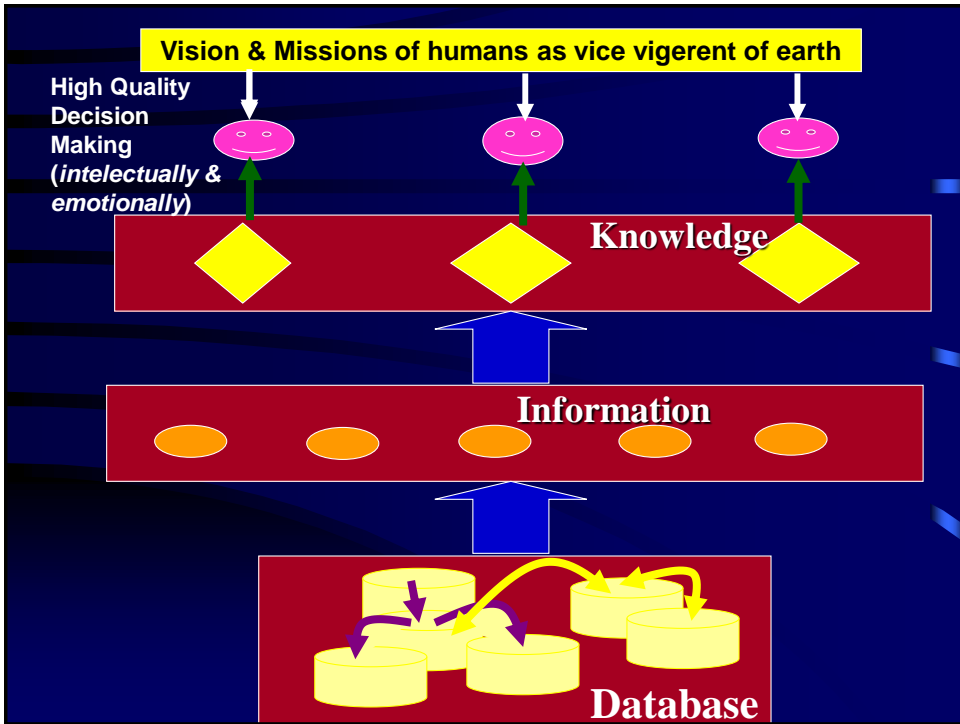
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Reengineering & Information Technology



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