



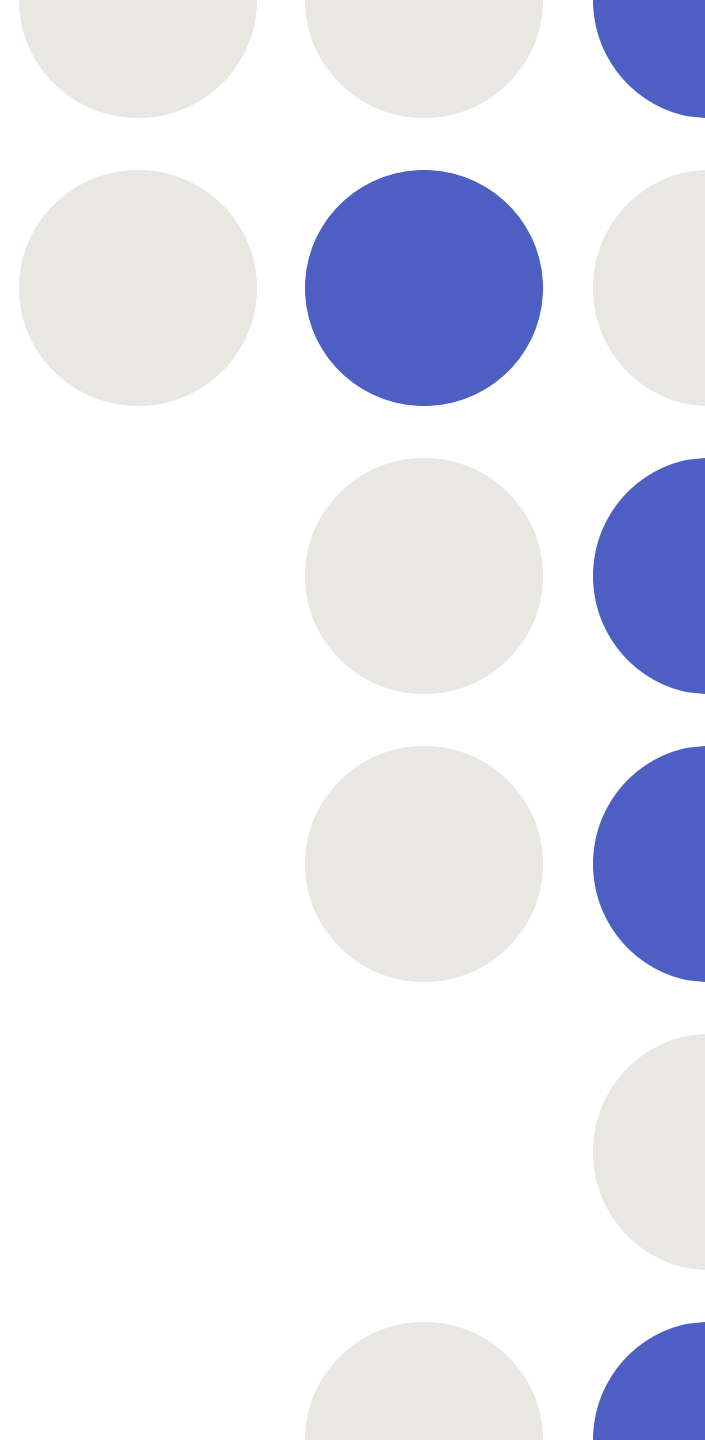
Konsep Sistem

Dr. Muhammad Said Hasibuan

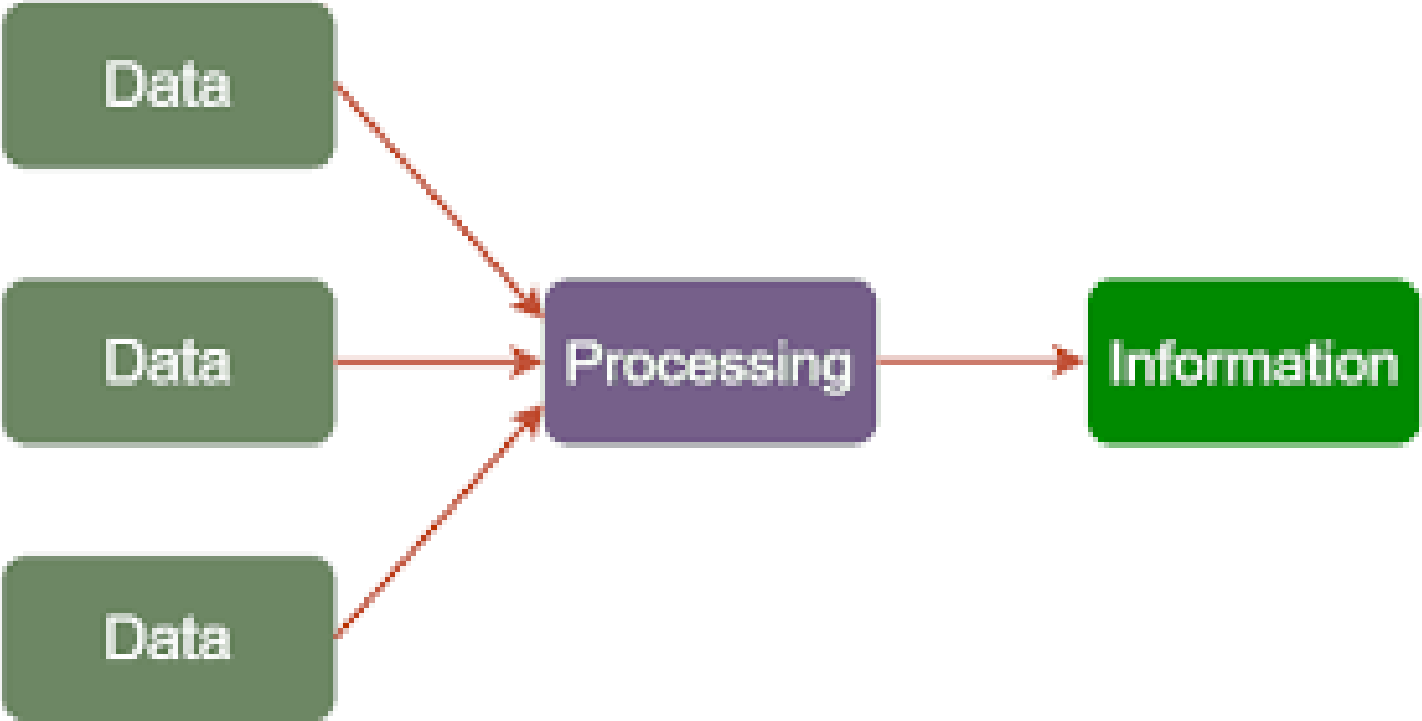


Data

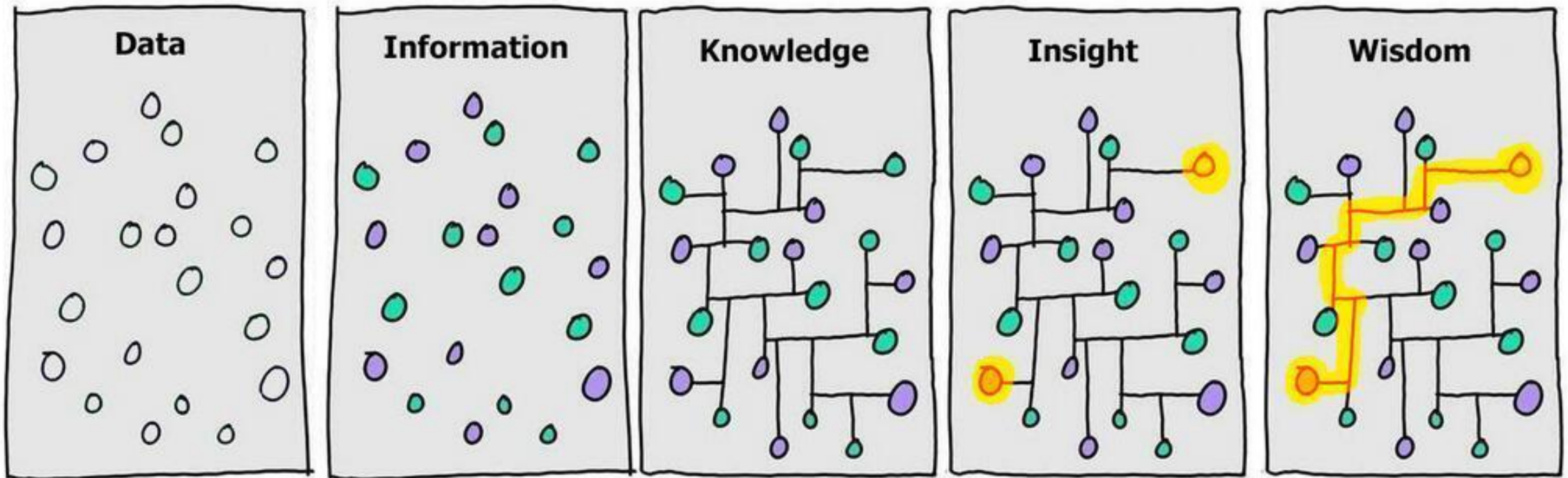
- Menurut Pendit (1992), data adalah hasil observasi langsung terhadap suatu kejadian, yang merupakan perlambangan yang mewakili objek atau konsep dalam dunia nyata.
 - Menurut Ralston dan Reilly (Chamidi, 2004: 314), data didefinisikan sebagai fakta atau apa yang dikatakan sebagai hasil dari suatu observasi terhadap fenomena alam. Sebagai hasil observasi langsung terhadap kejadian atau fakta dari fenomena di alam nyata, data bisa berupa tulisan atau gambar yang dilengkapi dengan nilai tertentu.
-



Data to Informasi

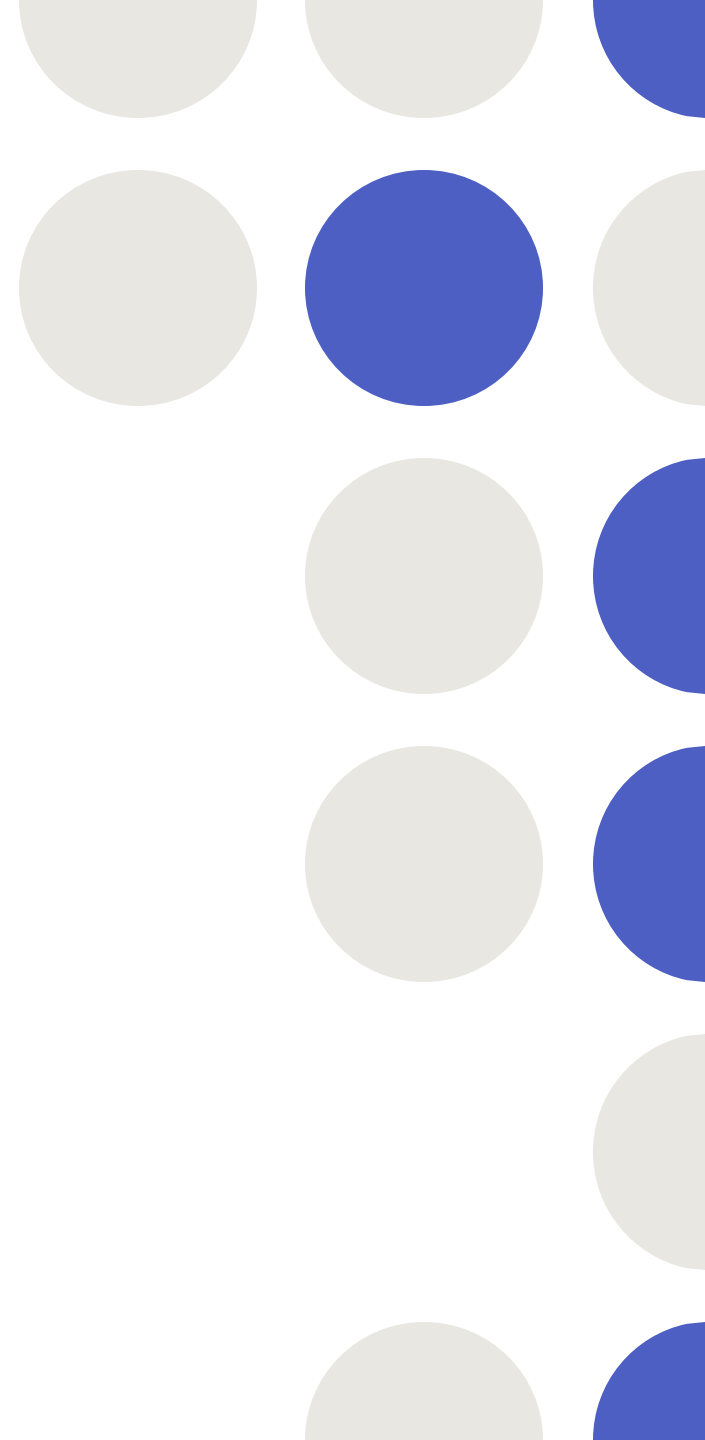


Data to wisdom



System

- a set of connected things or devices that operate together



Data

Raw



Information

Processed



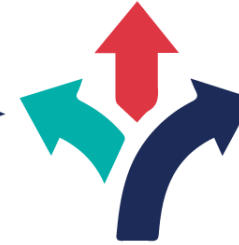
Knowledge

Actionable

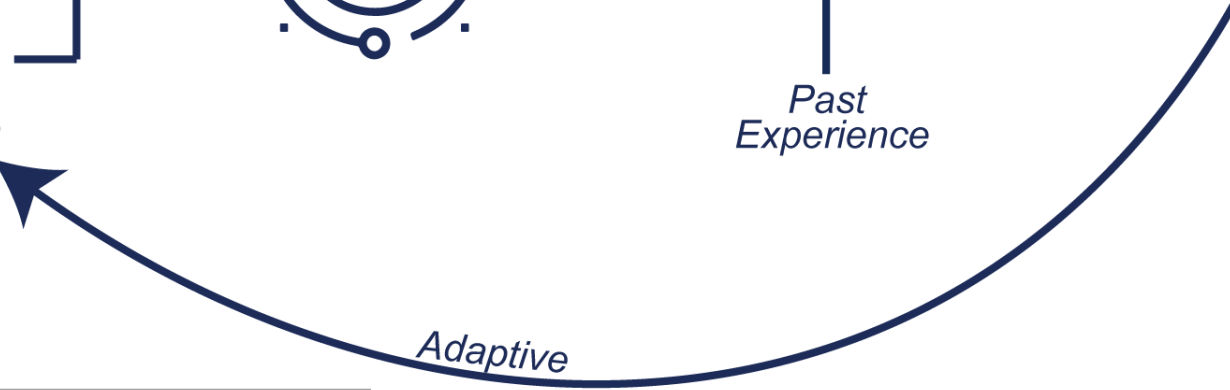


Decision

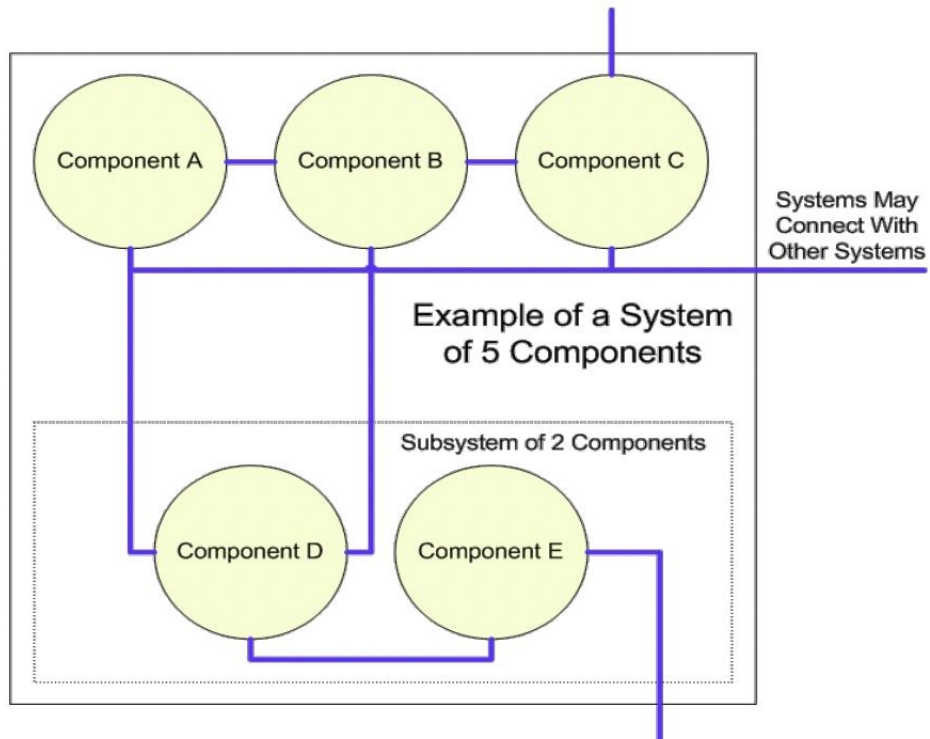
Making



Adaptive

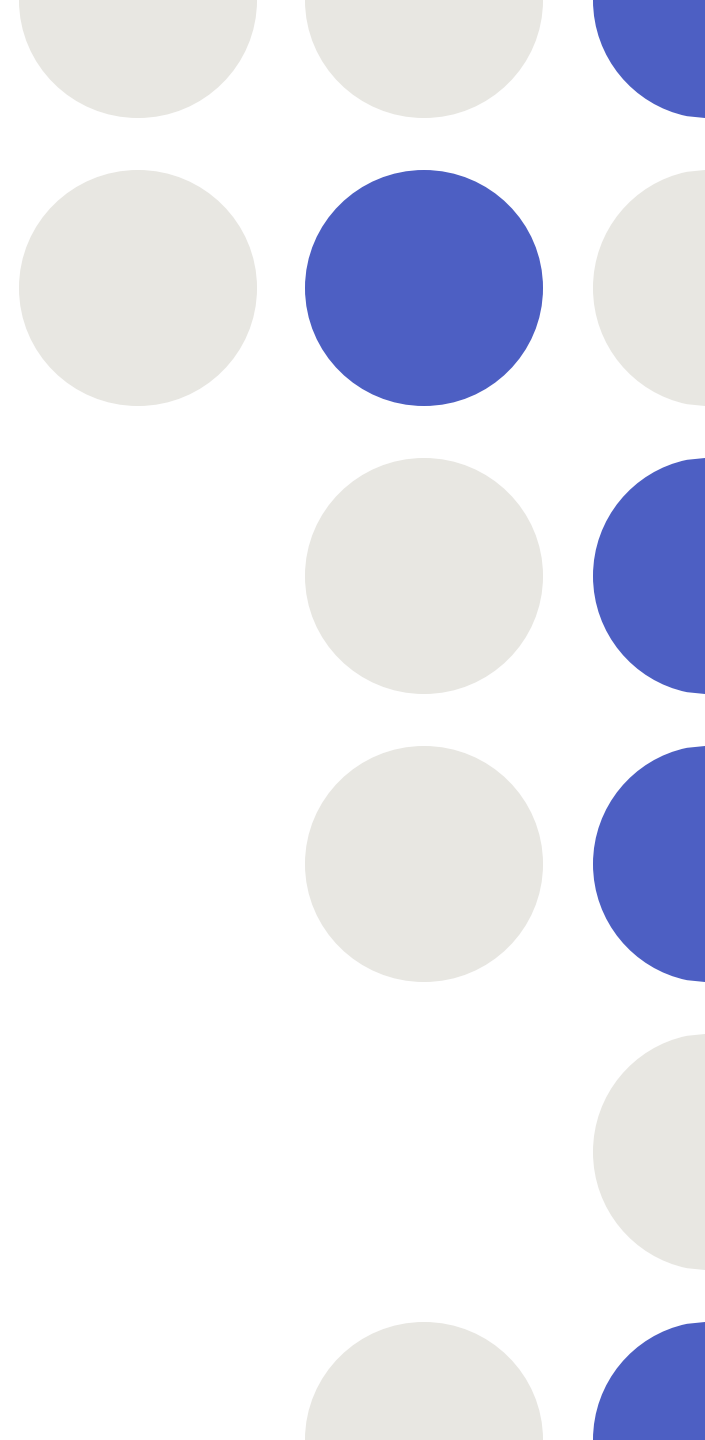


Sample System



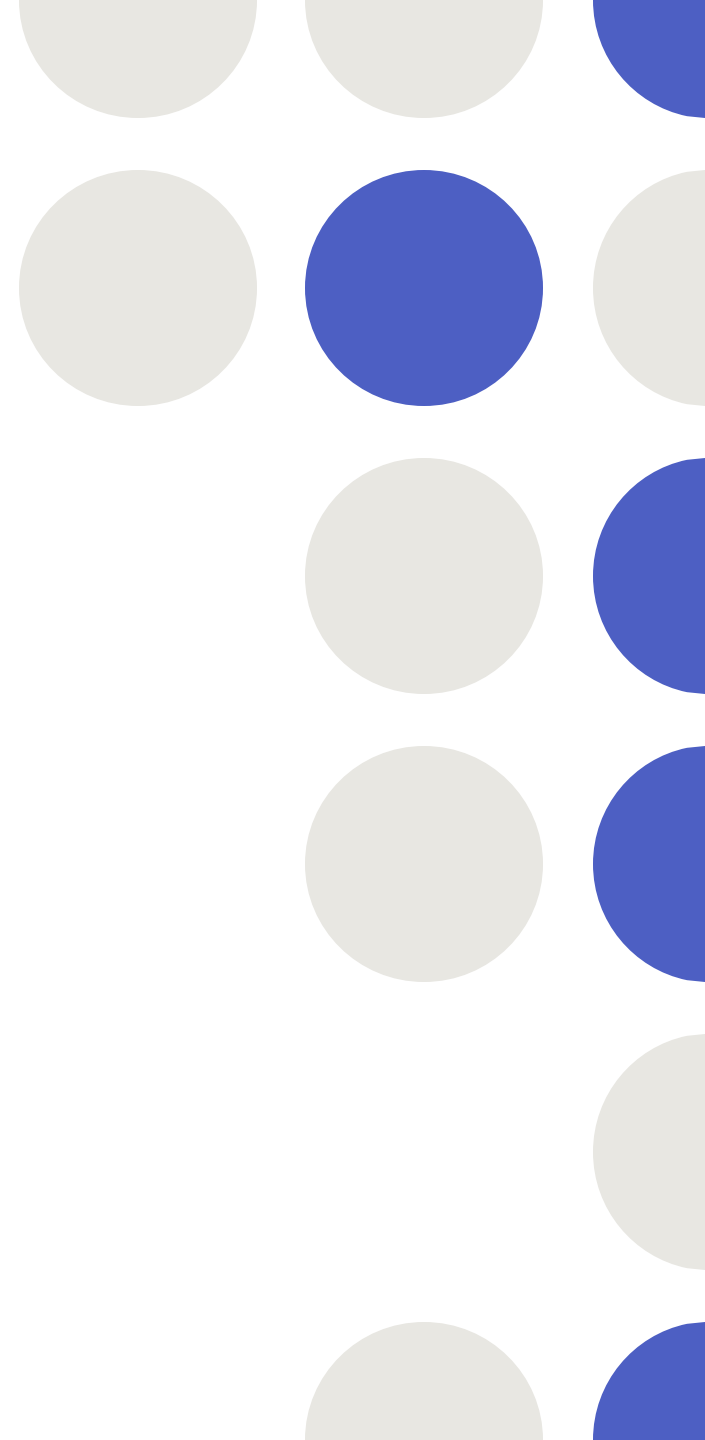
Innovation

- Innovation is the process of “making improvements by introducing something new” to a system.
 - Innovation is an important topic in the study of economics, business, technology, sociology, and engineering. Since innovations are a major driver of the economy, the factors that lead to innovation are also critical to government policymakers. |
-

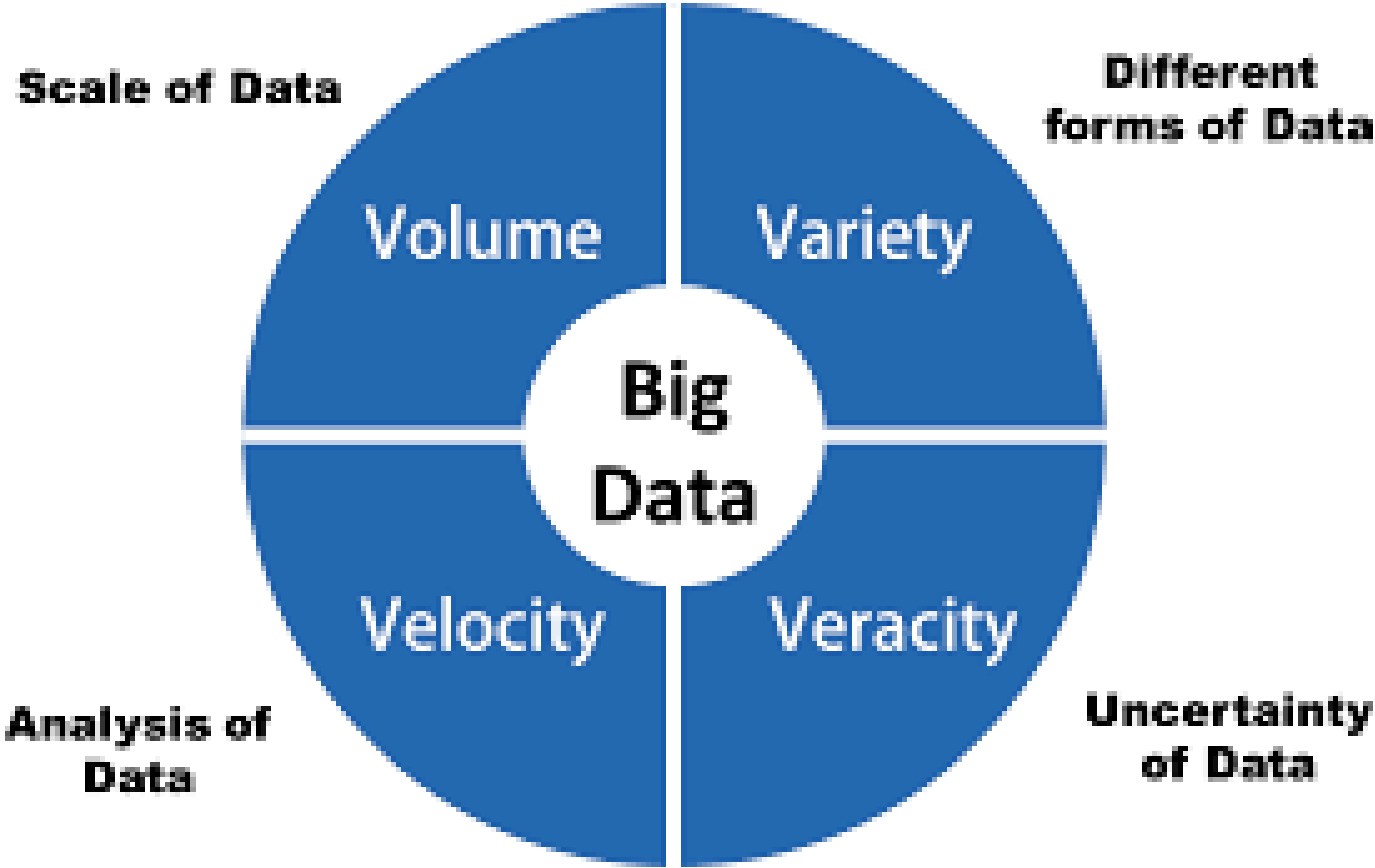


Innovation

- While innovation can occur as individuals and groups wrestle with new problems, innovation can also be reactionary and occur as a response to unplanned changes.
 - The ancient philosopher Heraclatus once said: “there is nothing permanent except change
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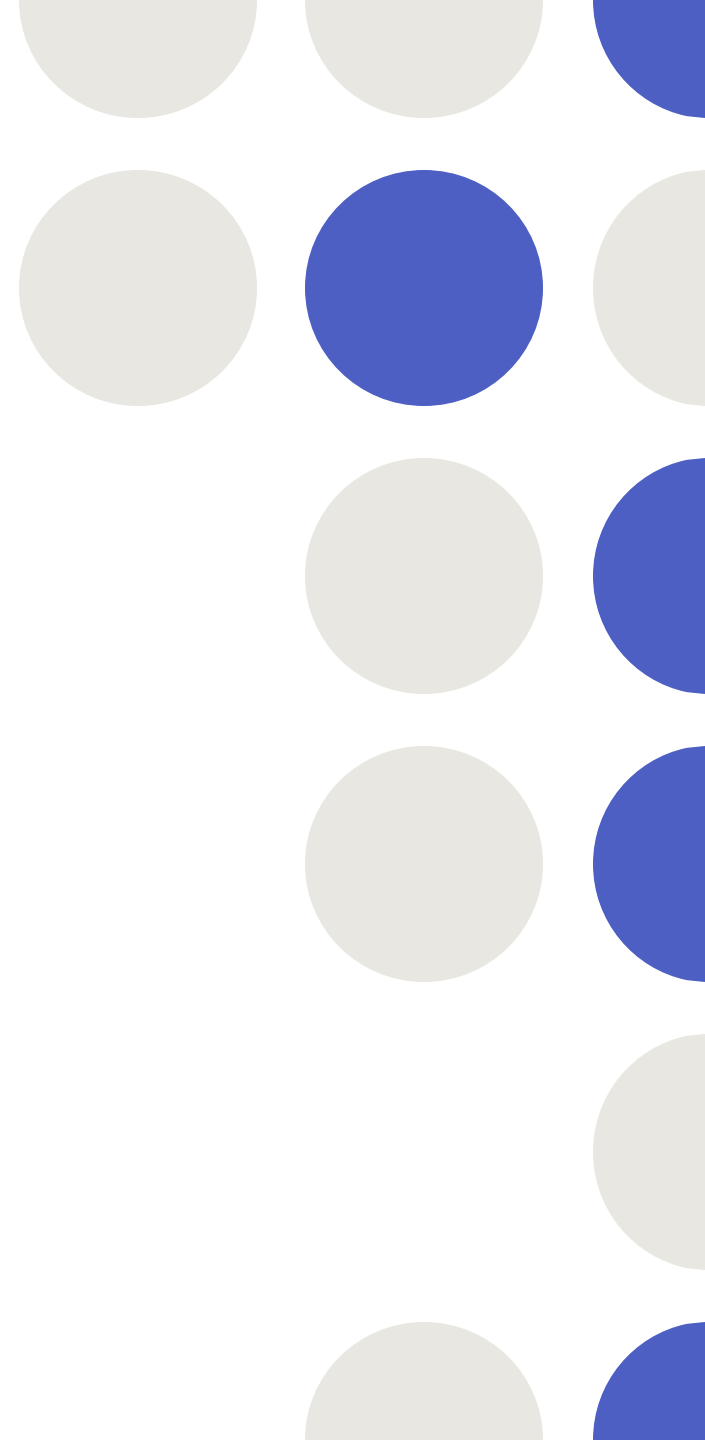


Big data



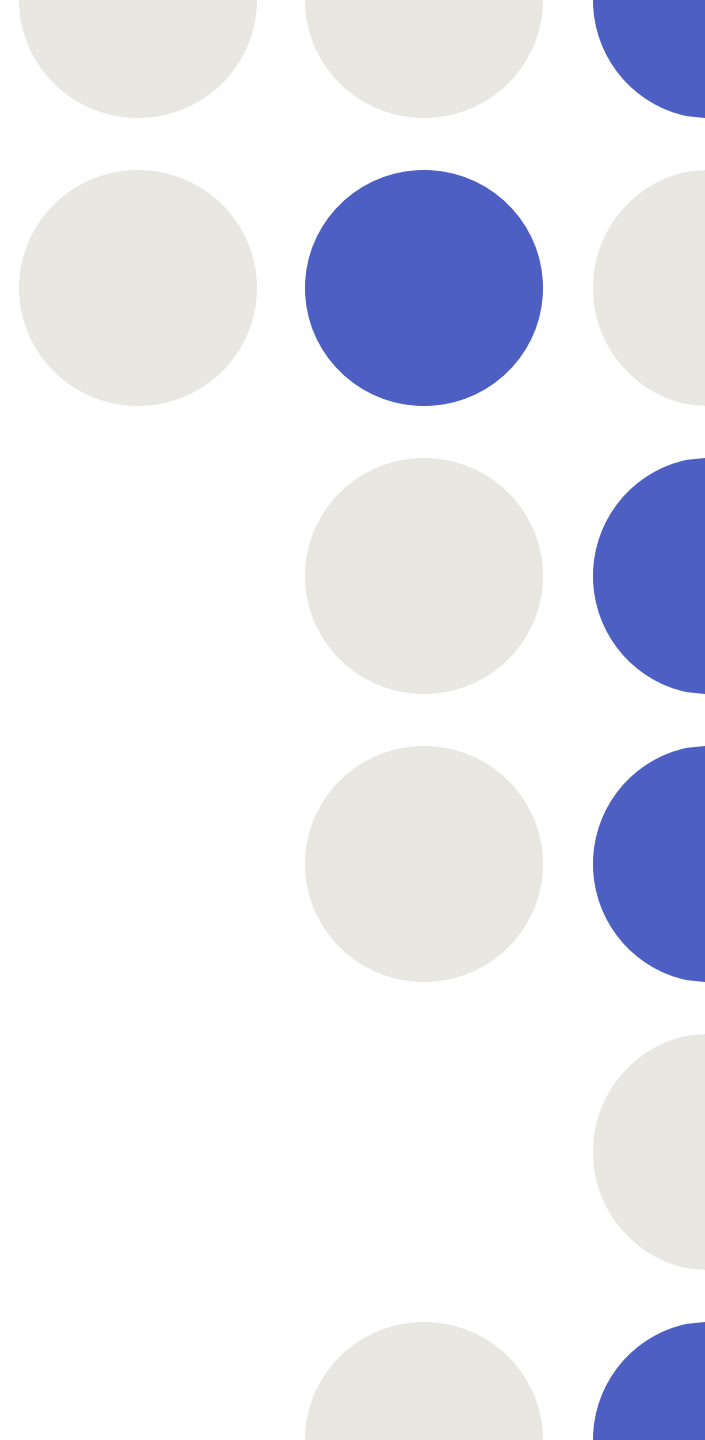
1. Volume

Volume, yang pertama dari 5 V Big Data, mengacu pada jumlah data yang ada. Volume seperti basis Big Data, karena merupakan ukuran awal dan jumlah data yang dikumpulkan. Jika volume data cukup besar, maka dapat dikatakan big data. Apa yang dianggap sebagai Big Data adalah relatif, dan akan berubah tergantung pada daya komputasi yang tersedia di pasar.



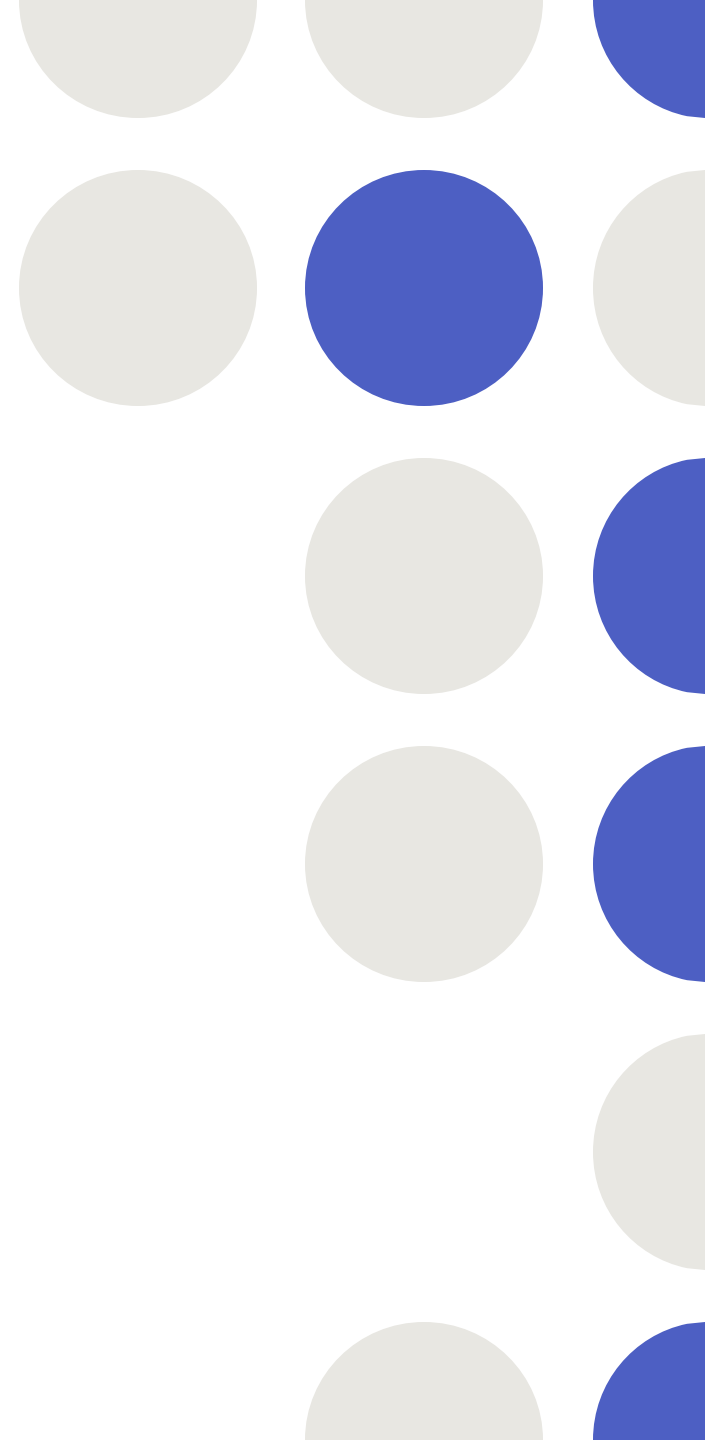
2. Velocity

- Berikutnya dari 5 V Big Data adalah kecepatan. Ini mengacu pada seberapa cepat data dihasilkan dan seberapa cepat data tersebut bergerak.
-



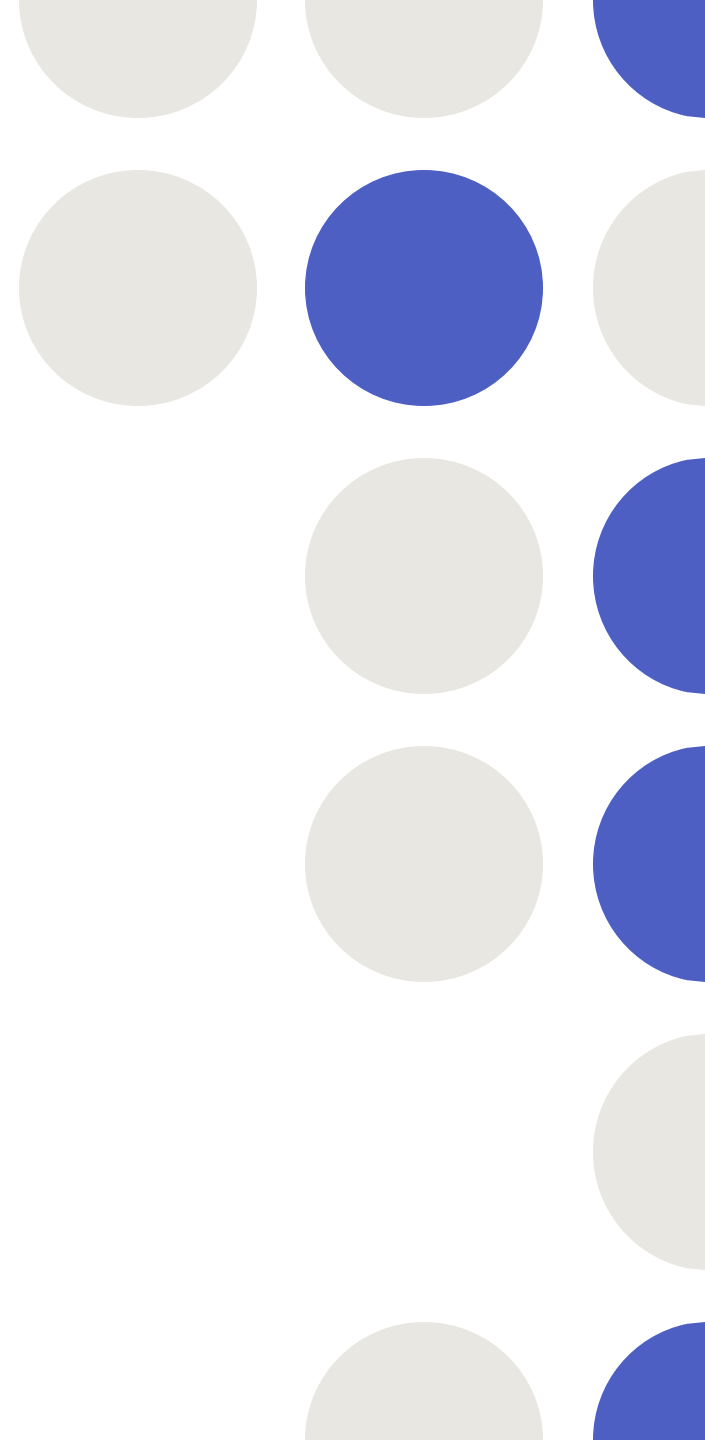
3. Variety

- V berikutnya dalam lima 5 V Big Data adalah variasi. Varietas mengacu pada keragaman tipe data.



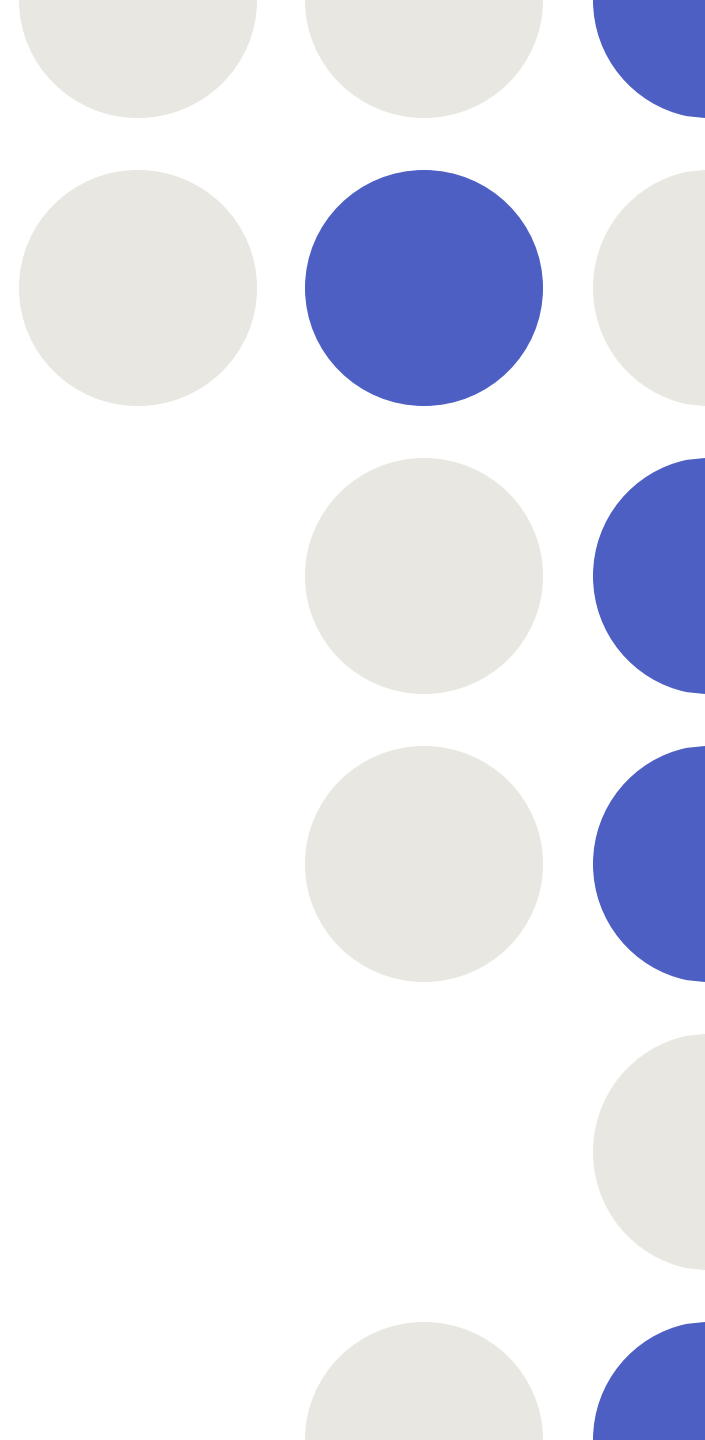
4. Veracity

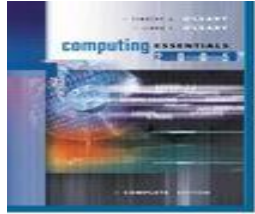
- Veracity adalah V keempat dalam 5 V Big Data. Ini mengacu pada kualitas dan keakuratan data. Data yang dikumpulkan dapat memiliki bagian yang hilang, mungkin tidak akurat, atau mungkin tidak dapat memberikan wawasan yang nyata dan berharga. Veracity, secara keseluruhan, mengacu pada tingkat kepercayaan yang ada dalam data yang dikumpulkan.
-



5. Value

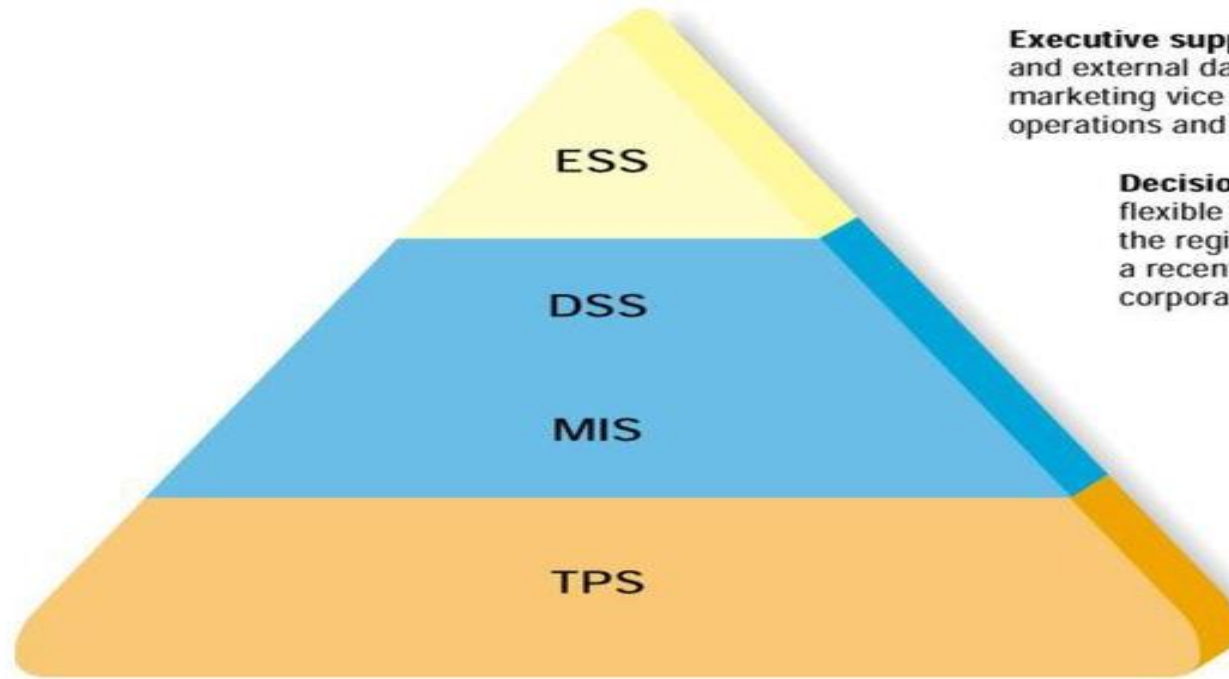
- V terakhir dalam 5 V Big Data adalah Value. Ini mengacu pada nilai yang dapat diberikan oleh Big Data, dan ini terkait langsung dengan apa yang dapat dilakukan organisasi dengan data yang dikumpulkan tersebut
-





Computer-Based Information Systems

Information Systems



Executive support systems (ESS) use internal data from MIS and external data to support top-level managers. At HealthWise, the marketing vice president uses his ESS to view current marketing operations and to develop long-term marketing strategies.

Decision support systems (DSS) use data from TPS and flexible analytical tools to support middle managers. At HealthWise, the regional sales managers use the DSS to evaluate the impact of a recent national promotion campaign on regional sales and corporate profit.

Management information systems (MIS) use the TPS to support middle-level managers. At HealthWise, regional sales managers use their MIS reports to track weekly divisional sales and to compare actual sales to established sales goals.

Transaction processing systems (TPS) handle day-to-day transactions to support front-line managers. At HealthWise, production managers use their TPS to record and to monitor inventory levels and production line output.

1. Executive Support System (ESS)

Sistem ini akan membantu manajer untuk bisa berinteraksi dengan lingkungan perusahaan dan bisnis. Caranya yaitu dengan memakai bantuan dari grafik serta pendukung dari komunikasi yang lain.

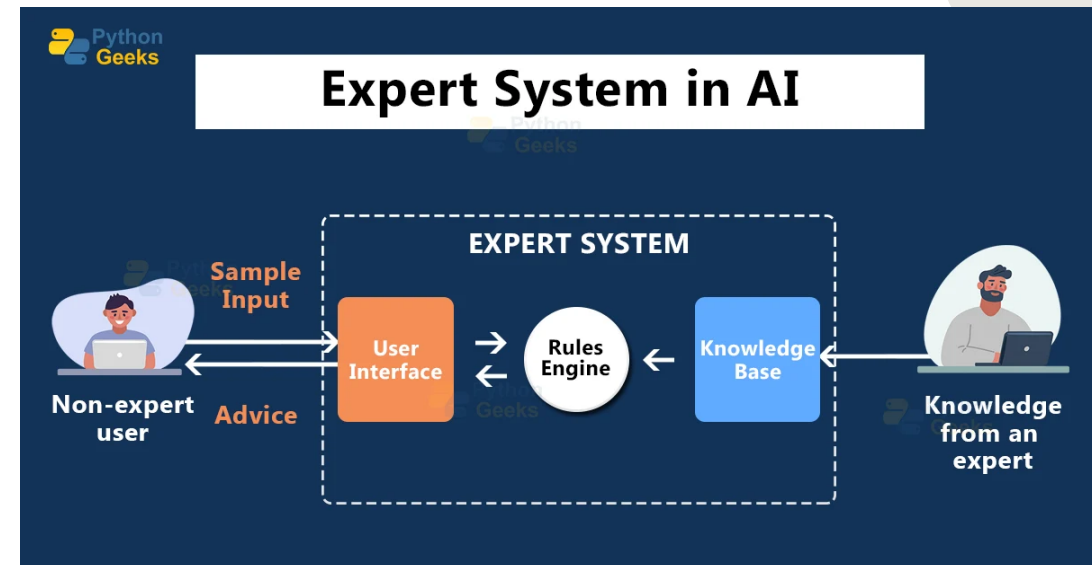


2. Group Decision Support System (GDSS) dan Computer-Support Collaborative Work System (CSCWS)

- GDSS fungsinya adalah untuk mencari solusi atas permasalahan untuk pengumpulan pengetahuan pada kelompok dan bukan individual. GDSS lebih sering ada dalam bentuk kuesioner, konsultasi, serta skenario. Contoh dari GDSS adalah *e-government*.

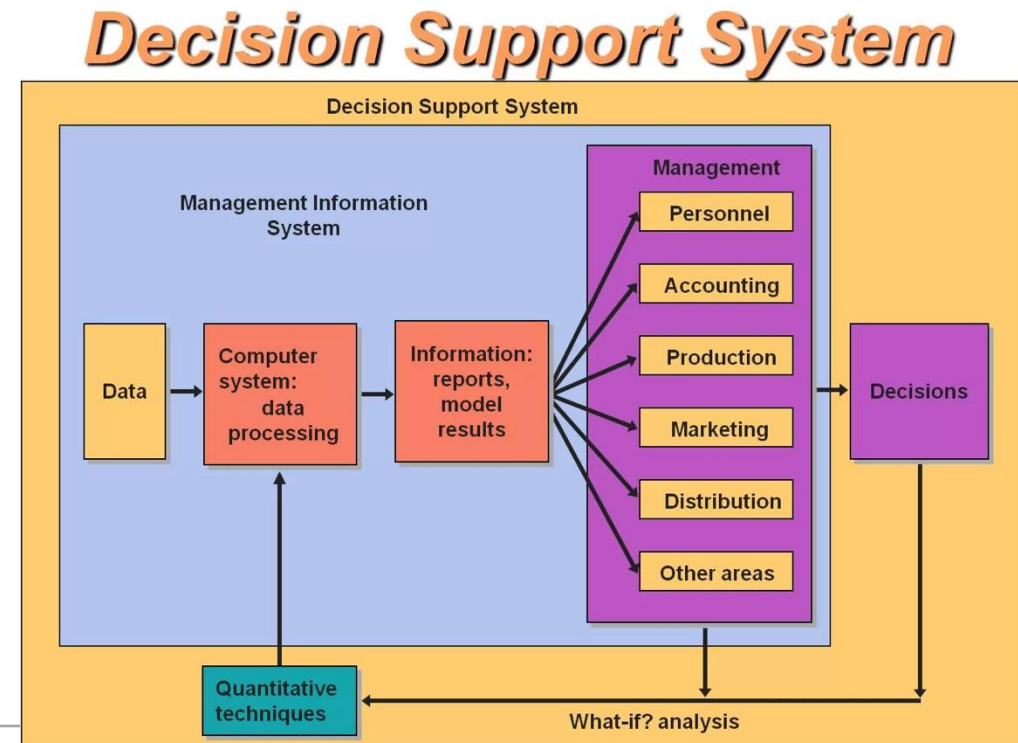
Expert System (ES) dan Artificial Intelligent (AI)

- Sistem informasi yang ini biasanya memakai kecerdasan buatan dalam menganalisis pemecahan masalah menggunakan pengetahuan tenaga ahli yang sudah diprogram kedalamnya. Contoh dari ES dan AI adalah sistem jadwal mekanik.



Decision Support System (DSS)

- Selanjutnya, ada sistem informasi yang membantu manajer untuk mengambil keputusan dengan mengamati lingkungan dalam perusahaan. Contoh dari DSS adalah *link* elektronik.



Office Automation System (OAS)

- Contoh sistem informasi berikutnya adalah OAS atau *Office Automation System*. Aplikasi ini memiliki fungsi untuk melancarkan komunikasi antara departemen di dalam perusahaan. Caranya dengan mengintegrasikan dan menggabungkan *server* komputer di setiap *user* perusahaan. Contoh OAS adalah melalui email.
-

Supply Chain Management (SCM)

- Pada sistem ini, manfaat yang diperoleh dari manajemen adalah mengintegrasikan data penting seperti suplai dari pemasok, produsen, hingga pengecer. Tidak tanggung-tanggung, bahkan sampai ke konsumen paling akhir. Biasanya sistem ini menjadi satu dengan sistem pembukuan perusahaan pada *software* akuntansi.

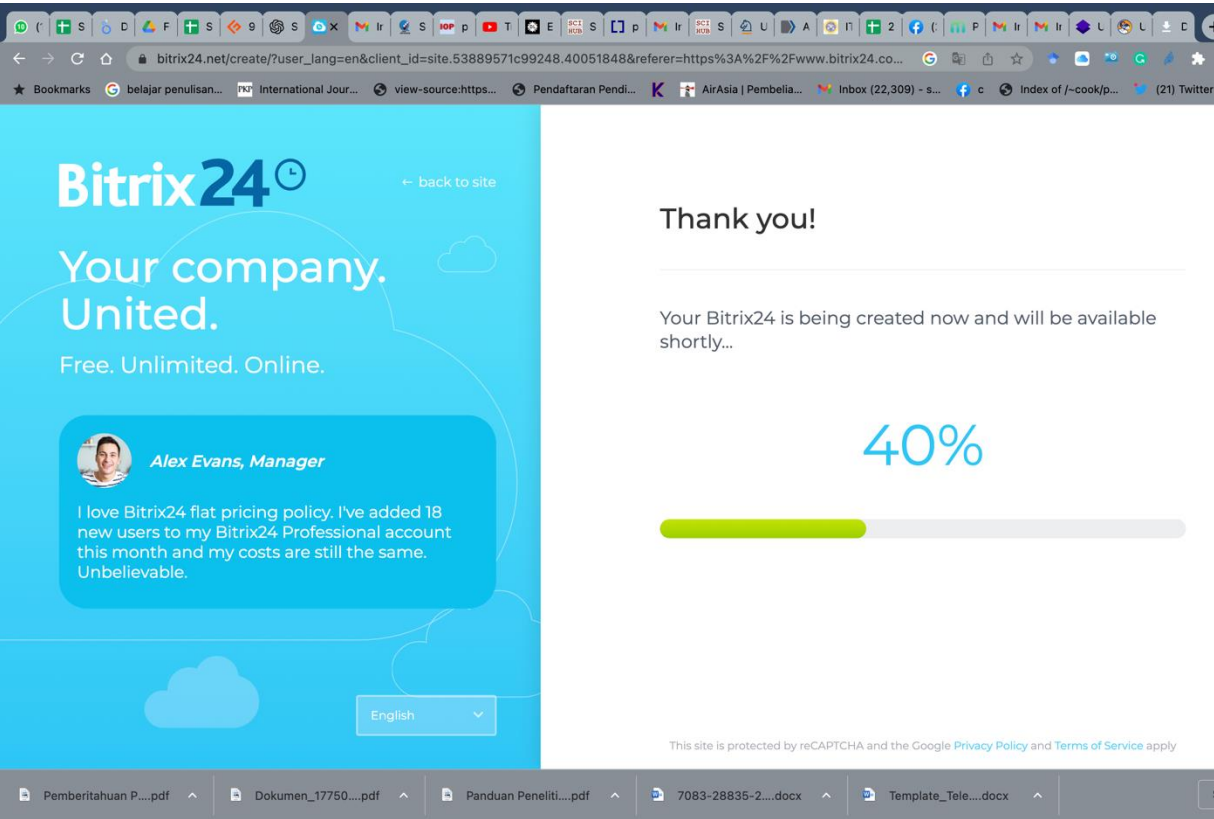


Enterprise Resource Planning (ERP)

- Biasanya perusahaan besarlah yang sering menggunakan sistem informasi manajemen ERP. Tapi, sistem ini juga bisa digunakan dalam skala kecil. ERP biasanya dipakai pada pengelolaan manajemen serta melakukan pengawasan yang terintegrasi antara unit-unit perusahaan.




ERP



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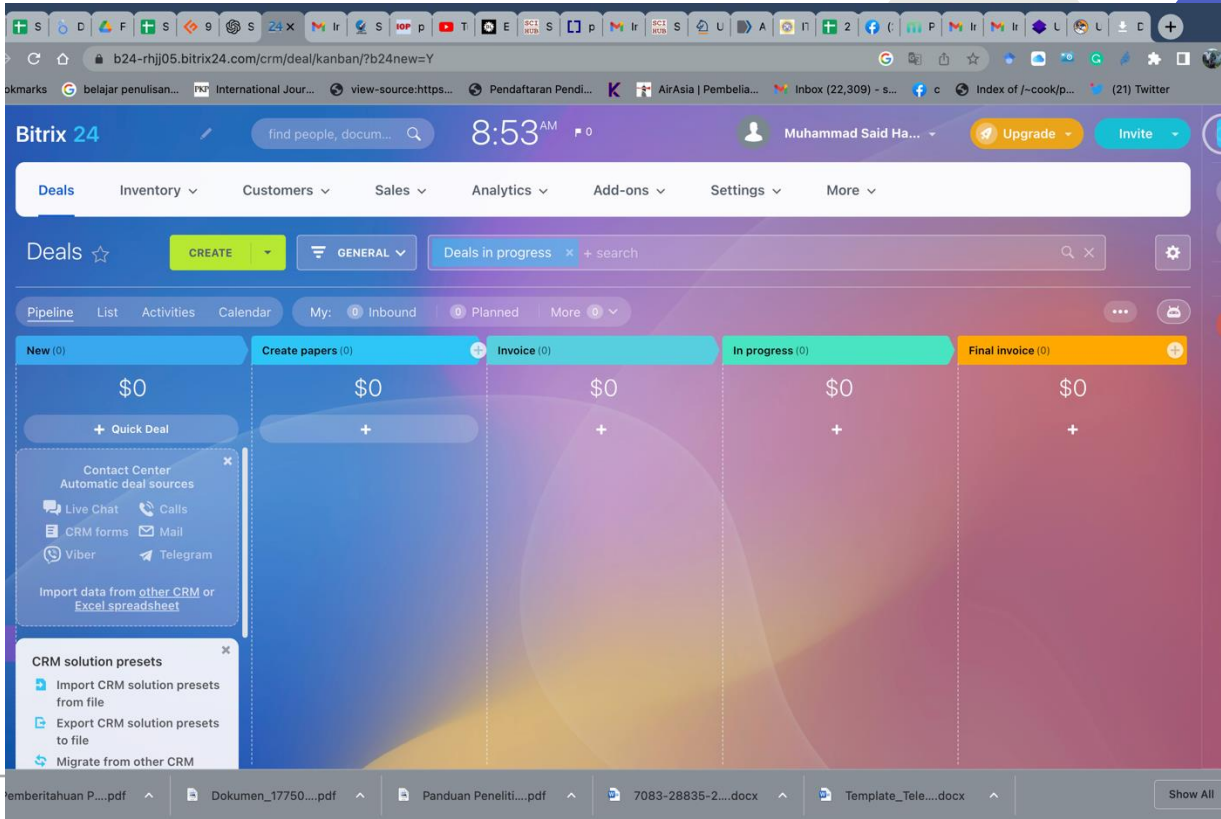
English

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Deals Inventory Customers Sales Analytics Add-ons Settings More

Deals CREATE GENERAL Deals in progress

Pipeline List Activities Calendar My: Inbound Planned More

New (0)	Create papers (0)	Invoice (0)	In progress (0)	Final invoice (0)
\$0	\$0	\$0	\$0	\$0
+ Quick Deal	+	+	+	+

Contact Center Automatic deal sources

- Live Chat
- Calls
- CRM forms
- Mail
- Viber
- Telegram

Import data from other CRM or Excel spreadsheet

CRM solution presets

- Import CRM solution presets from file
- Export CRM solution presets to file
- Migrate from other CRM



A screenshot of the Odoo website selection page. The browser's address bar shows "odoo.com/id_ID/trial". The page features a dark purple header with the text "Pilih Aplikasi Anda" (Choose Your Application) and "Gratis akses instan, tidak perlu kartu kredit." (Instant free access, no credit card needed). Below the header, there are three main categories of applications: WEBSITE, PENJUALAN (Sales), and PENGOPERASIAN (Operations). Each category contains several application tiles with icons and names, such as Website, eCommerce, eLearning, Live Chat, CRM, Penjualan, Faktur, Point of Sale, Tanda Tangan, Langganan, Penyewaan, Servis Lapangan, Akuntansi, Knowledge, Proyek, and Timesheet. The browser's taskbar at the bottom shows several open tabs, including "Pemberitahuan P...", "Dokumen_17750...", "Panduan Peneliti...", "7083-28835-2...", and "Template_Tele...".



weberp

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- Development
- Support
- Links

Practical Web-Based ERP Software

webERP is a mature open-source ERP system providing best practise, multi-user business administration and accounting tools over the web.

About

webERP is a complete web based accounting and business management system that requires only a web-browser and pdf reader to use. It has a wide range of features suitable for many businesses particularly distributed businesses in wholesale, distribution and manufacturing. When combined with a 3rd party interactive desktop **Point Of Sale system** it can also form the hub of a dispersed multi-branch retail management system. A fully integrated **webSHOP** is also available as a 3rd party add-on. webERP is an open-source application and is available as a free download to use with all the PHP code written in an accessible way for you to add your own features as needed.

User Base

There are thousands of downloads every month. The extraordinary growth of webERP adoption has been entirely through word of mouth testimony - there has never been a marketing or advertising push to "sell" webERP. Of course there are no funds nor commercial incentive to do so for free software. This growth is built on reputation and solid practical functionality that works as tried and tested by an increasing number of businesses. There are 33 different language translations available all included in the archive with users all over the world.

Latest news

The latest release is 4.15.1 released 23rd June 2019.



Key additions include:

- The webSHOP shopping cart application is now bundled with webERP
- New script to graph a GL account
- New period selection functions in various reports
- Dismissible notification functionality added
- Receipt image upload for petty cash expense claims

As well as a number of bug fixes and utility scripts

Guiding Principles

webERP has been designed and developed with very specific goals in mind. These goals have consistently underpinned development since its inception:



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Terima kasih

