Project Management Principles

Olivier ESNAULT 2024

0

## Intro

Internal

Intro

Environ 3 350 000 000 résultats (0,33 secondes)

Internal

1

Introduction to Information Systems

Definition of an Information System

"An Information System (IS) is a formal, sociotechnical, organizational system designed to collect, process, store, and distribute information".[1]
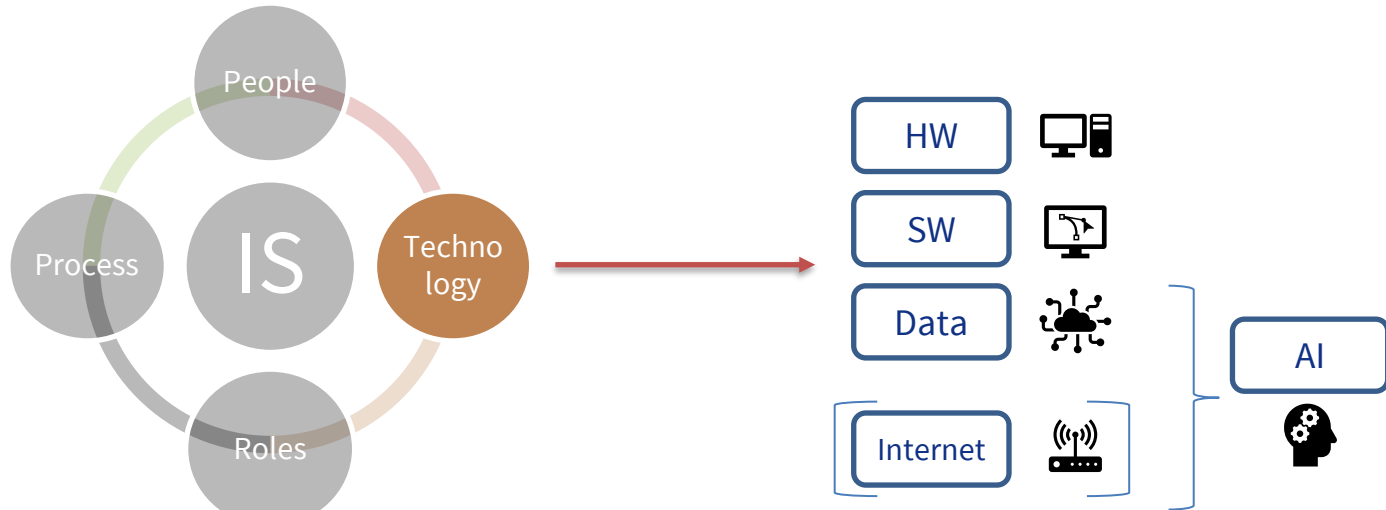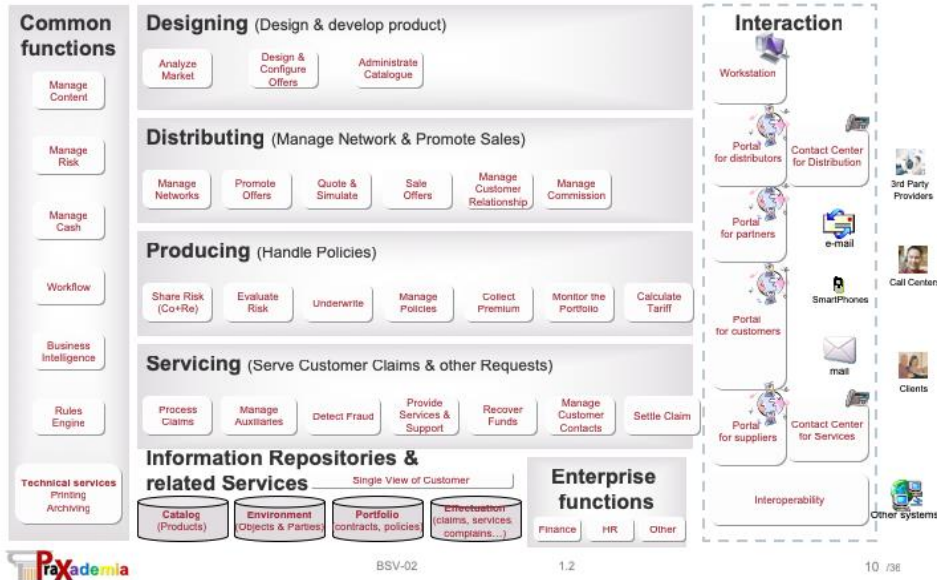
Internal

Definition of an Information System

"An information system (IS) is a formal, sociotechnical, organizational system designed to collect, process, store, and distribute information".[1]

Internal
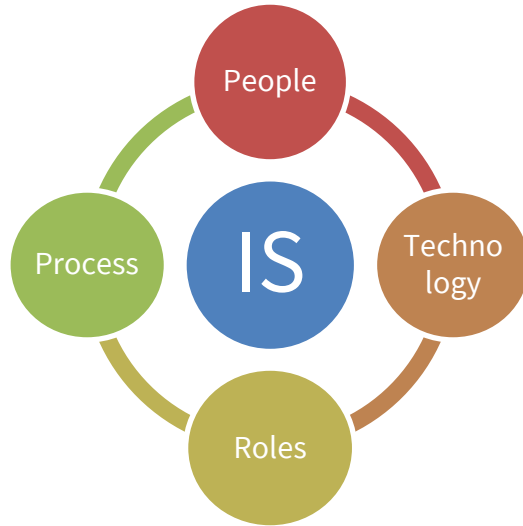
Information System examples

A Business View of the Insurance Information System (2)

Definition of Information Technology (IT)

"Information technology (IT) is the use of any computers, storage, networking and other physical devices, infrastructure and processes to create, process, store, secure and exchange all forms of electronic data".

- It corresponds to the technological part of the Information System
- It's a term commonly used for business environment
- It supports the Business goals

- The term was first published in the Harvard Business Review in 1958[3]

IT Components and functions

Internal
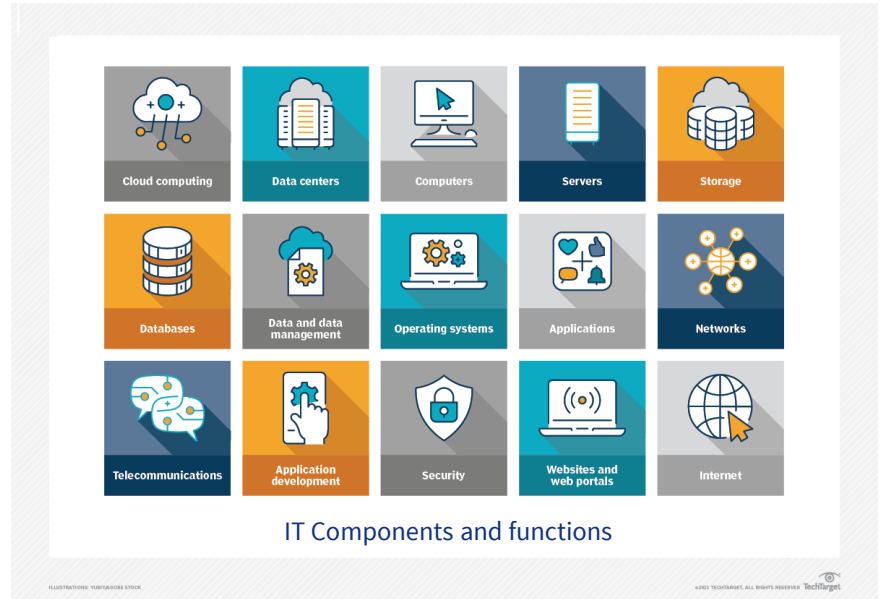
Challenges of IT in a Company – The starting point for projects
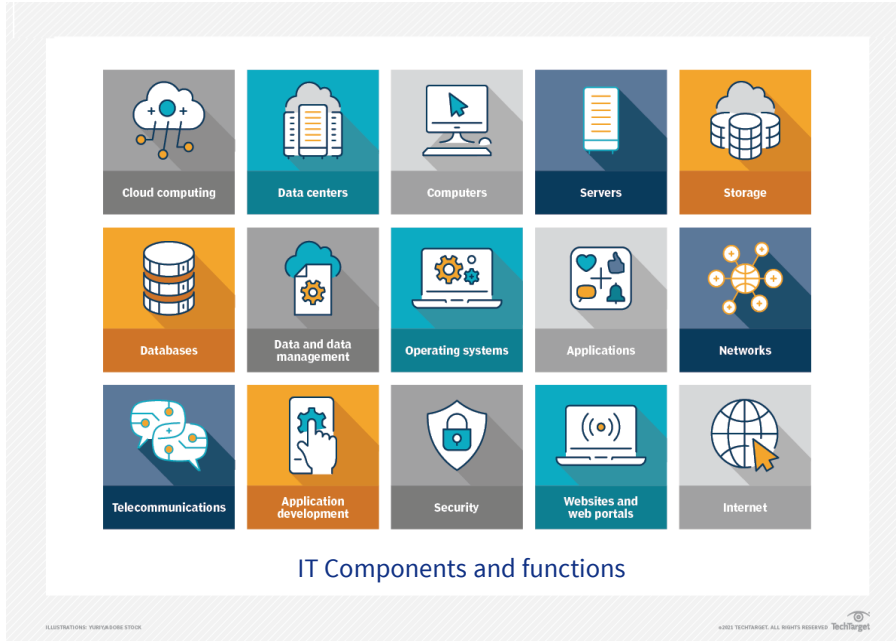
IT Components and functions

- Business: TTM, digitalization, digital transformation
- Technological: Obsolescence, Technical debt
- Security: Leakage, attacks, fraud
- Operational: SLAs, QoS
- Financials: TCO, Inflation, costs optimization
- HR: People Management, flex ratio, Sourcing strategy

Internal

Zoom on IT challenges leading to projects

➔ **Business:**
- → TTM
- → Digitalization, digital transformation

➔ **Technological:**
- → Obsolescence
- → Technical debt

Revenue [$]

Market Expand

Market Decline

On-Time Entry

Delayed Entry

d (Delay)

w (Market Window)

Time

Source= Electronics Magazine 1989 Model

Digitization — Conversion of Analogue to Digital (data)

Digitalization — Adaption (Process)

Digital Transformation — Creation (Business)

Source : Plumlogix.com

Internal
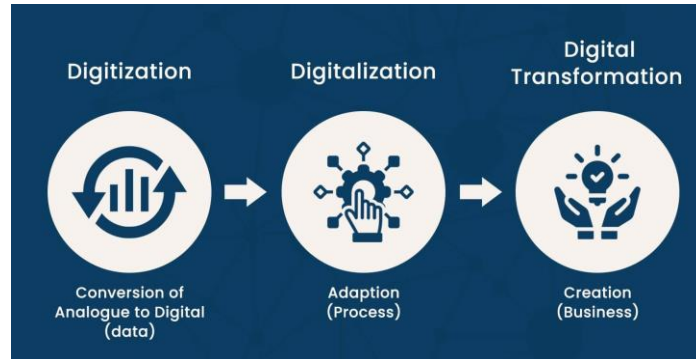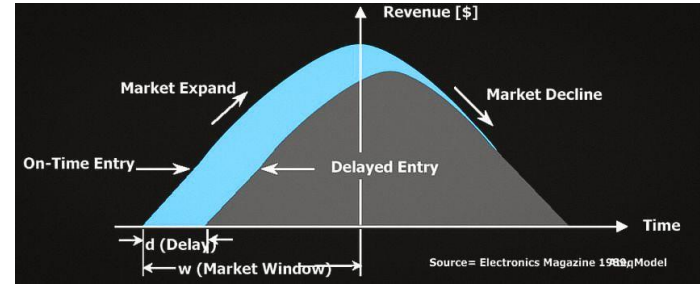
Zoom on IT challenges leading to projects
Example of German Market for battery – ELCV

Total Cost of Ownership

eLCV

15.000 €

Values in thousands €

| Purch. | Fuel | Insur. | MRO | Tax | Resid. | TCO |
| 17,3 | 2,3 | 1,8 | 1,7 | 0,0 | 8,1 | 15,0 |

LCV

13.600€

Values in thousands €

| Purch. | Fuel | Insur. | MRO | Tax | Resid. | TCO |
| 15,9 | 4,1 | 2,1 | 2,6 | 0,4 | 11,4 | 13,6 |
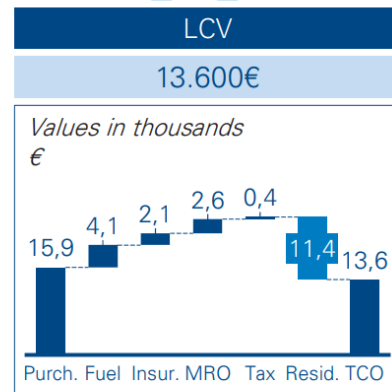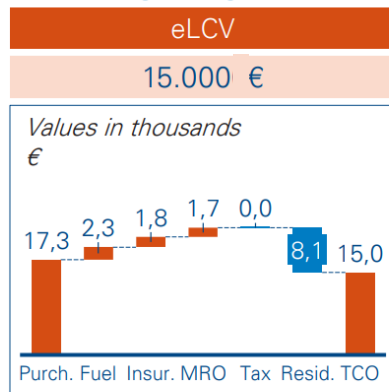
Source: Arthur D. Little (4). May 2019.

- Operating cycle: three years
- Annual mileage: 30,000 km
- eLCV purchasing subsidy: €4,000
- Electricity cost: €0.14 (net)/kWh
- Diesel cost: €1.05 (net)/l
- Current purchasing subsidy: €4,000

Internal

Zoom on IT challenges leading to projects

➡️ Security:
   → Leakage
   → Attacks
   → Fraud

➡️ Operational:
   → QoS
   → SLAs

Internal
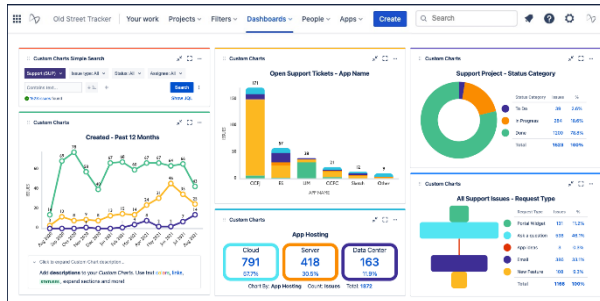
Zoom on IT challenges leading to projects

⊙ Financials:
- → TCO
- → Inflation
- → Costs optimization
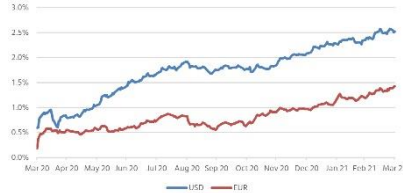
⊙ Human Resources HR:
- → People Management
- → Sourcing strategy
- → Flex ratio

Internal

Appendix

Table of Reference

(1). Piccoli, Gabriele; Pigni, Federico (July 2018). *Information systems for managers: with cases*

(2). Dominique Vauquier, 2019. *A Business View of the Insurance Information System*

(3). The Histoy of Information Technology

(4). Arthur D Little, THE GERMAN MARKET FOR BATTERY-ELECTRIC LIGHT COMMERCIAL VEHICLES.

To go further

- Managing IT Debt and Obsolescence, CIGREF

- Top 10 Digital Transformation Terms and Definitions You Should Know (video, 12'39")

Internal

French correspondance of covered concepts
#1 Introduction to Information Systems

Concept	French correspondance / usage
Information Technology : IT	1. Technologies de l'Information et de la Communication (TIC) 2. Technologies de l'Information
Chief Information Officer : CIO	Directeur des Systèmes d'Information – DSI
TTM : Time To Market	1. Time To Market 2. Délai de commercialisation
QoS : Quality of Service	Qualité de Service
SLA : Service Level Agreement	Niveaux de services attendus
TCO : Total Cost of Ownership	1. TCO 2. Coût total de possession
KPI : Key Performance Indicator	Indicateurs de mesure de la performance

Internal

Time To Market examples

Left infographic:

GM Seed Variety[1] — AVERAGE NUMBER OF YEARS TO GET A NEW GM VARIETY FROM DISCOVERY TO A GROWER'S FIELD — **13 years**

Pharmaceutical Medicine[2] — AVERAGE NUMBER OF YEARS TO GET A NEW MEDICINE FROM THE LABORATORY TO THE PHARMACY SHELF — **12 years**

Boeing 787 Dreamliner Aircraft[3] — NUMBER OF YEARS FROM CONCEPTUALIZATION TO MARKET RELEASE — **8.5 years**
Image from: http://www.boeing.com/boeing/commercial/787family/

Automobiles[4] — NUMBER OF YEARS FROM CONCEPTUALIZATION TO MARKET RELEASE — **3 years**

Heinz New Ketchup Packets[5] — NUMBER OF YEARS TO DEVELOP AND COME TO MARKET — **3 years**
Image from: http://www.heinzdipandsqueeze.com/

XBOX 360[6] — NUMBER OF YEARS FROM CONCEPTUALIZATION TO MARKET RELEASE — **2.9 years**
Image from: http://www.xbox.com/en-US/xbox-360/why-xbox-360?xr=shellnav

Right infographic — **Time Taken To Market For Different Products** — Years from invention to commercialization:
- Pharma — 12 yrs
- Aerospace — 9 yrs
- Materials for components — 6 yrs
- Automotive — 5 yrs
- Chemicals — 5 yrs
- Electronics — 2 yrs
- Foodstuffs — 2 yrs

Back

B2B International — A Merkle Company

Internal

Data in Digital Transformation

Internal