



THE IT DEPARTMENT ORGANIZATION

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UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH

General organizations:

1.- Governance

- Leadership, strategy, whole vision with no details, decision making, resource balancing and distribution, risk management, accountability

2.- Management

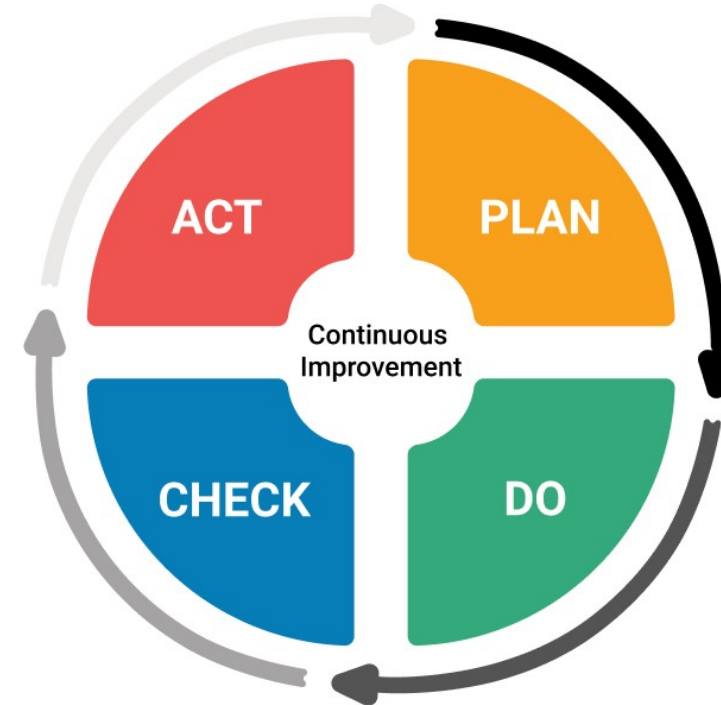
- Search for the more accurate tools or processes, knowledge of strategy, knowledge of technical details, reporting for decision-making, resource distribution, team management, accountability

3.- Execution

- Implementation, monitoring, maintenance, deploying, operating, developing, reporting, accountability

Some rules for an efficient organization

1. Authority must be divided in a balanced way
2. Know your role in every aspect of your workplace (do not get wrong about your role)
3. Do not assume other roles (accept decisions and learn to delegate)
4. Gather good data to support decision making (of quality and on-time)
5. Do not confuse compliance with strategy
6. Prepare for transparency and accountability
7. Have metrics and a system of incentives/ penalties
8. Search for continuous improvement



Old times: It is something “on the side”

- Not integrated in business strategy
- Just a facility

Nowadays

- IT responsible people are part of the strategy makers group
 - CEO
 - CSO
 - CIO
 - CTO
 - CISO
 - CDO
 - ... others

CEO (Chief Executive Officer) – **Not Computing Expert (usually)**

- The CEO is the main responsible for managing a company and, therefore, is ultimately responsible for the results and performance of a company.

Relationships

IT department

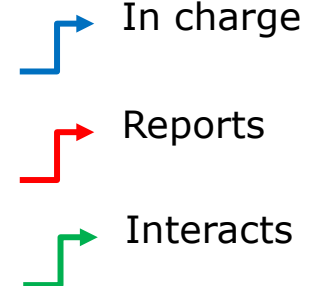
CEO

Other departments

Governance

Management

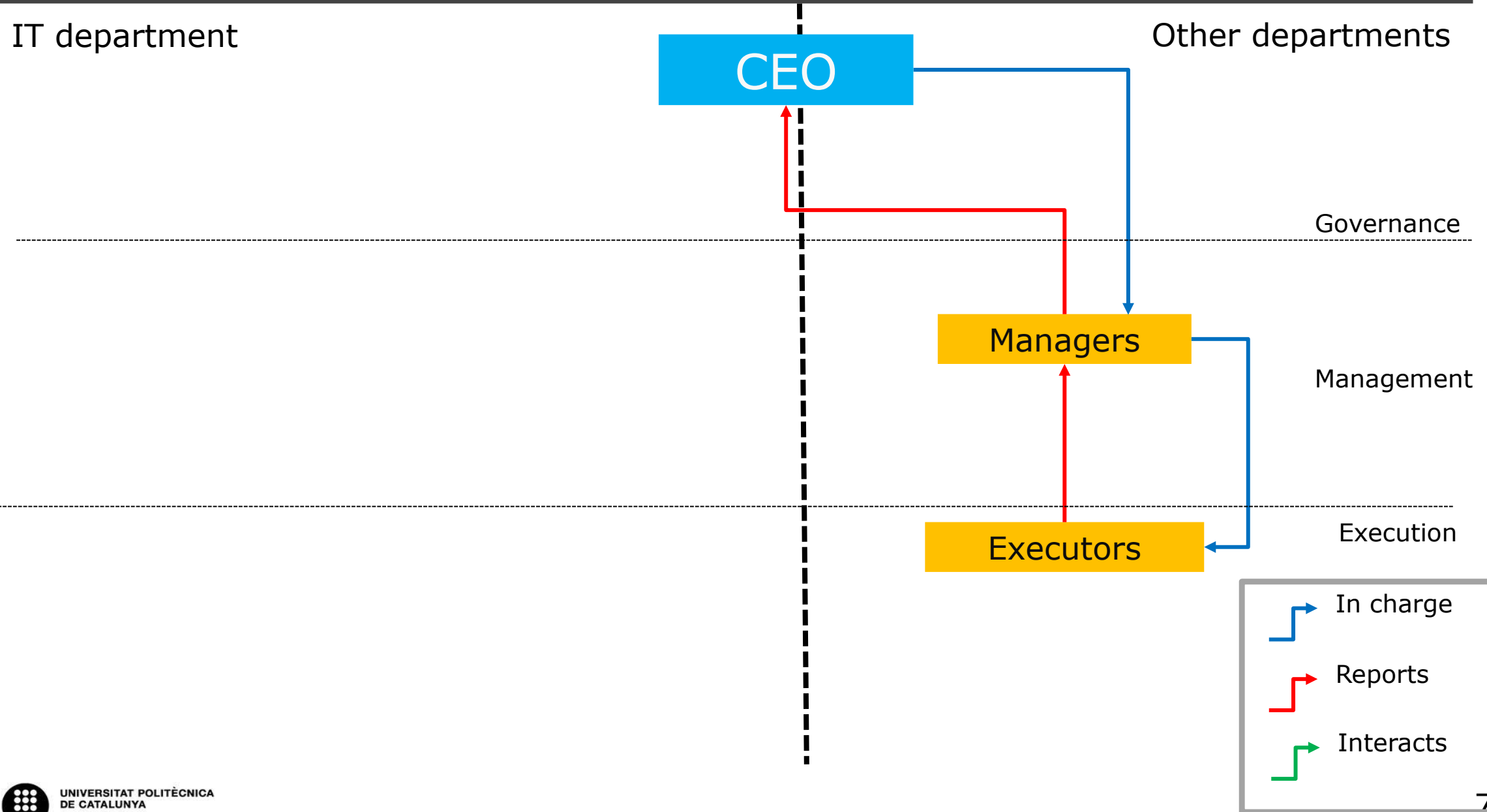
Execution



The CEO

IT department

Other departments



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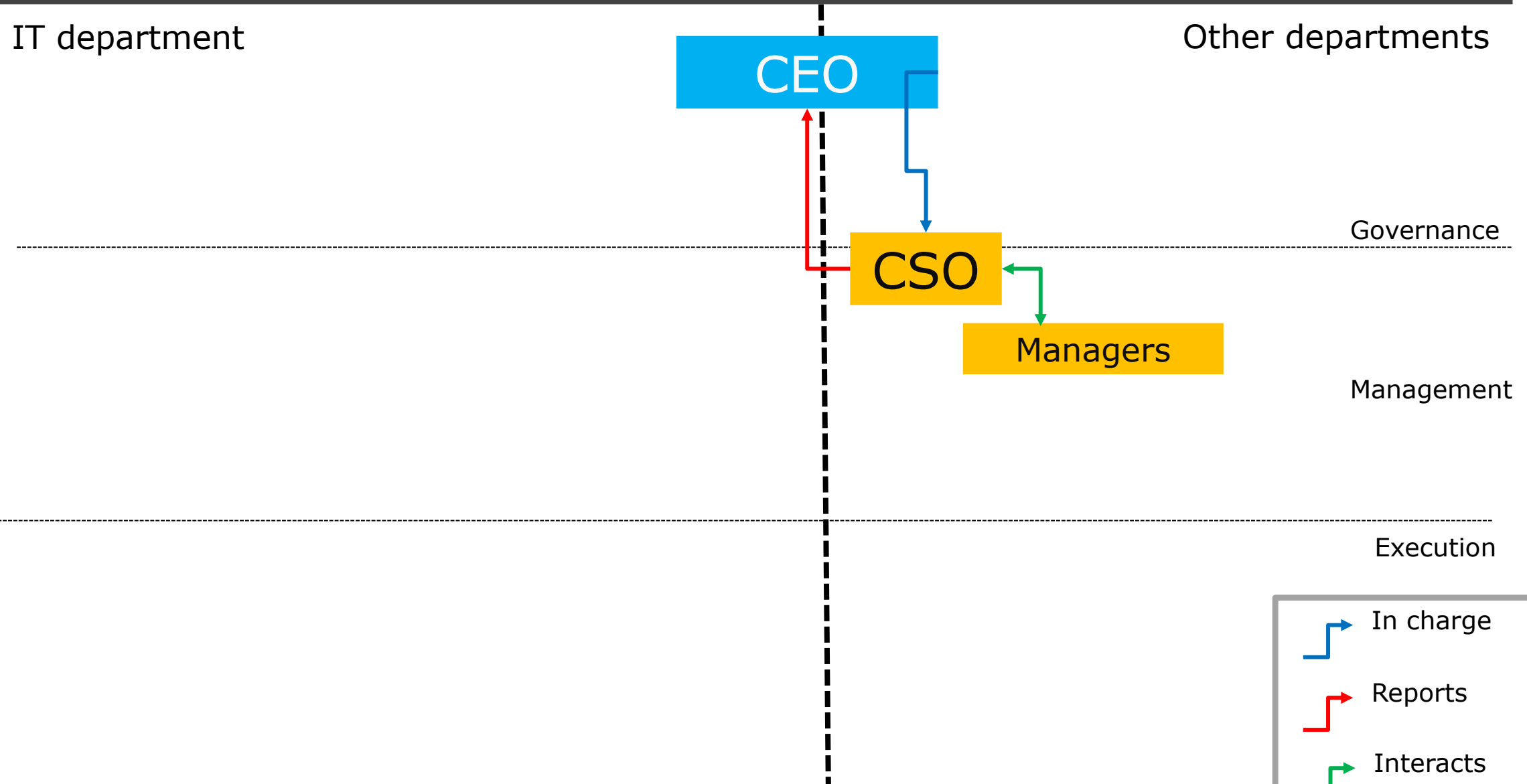
CSO (Chief Security Officer) – **Not Computing Expert (usually)**

- CSOs are in charge of Corporate Security. Their main responsibility is to guarantee the physical and technical security, and for that they must identify what assets they need and how to protect them.

The CSO

IT department

Other departments



- In charge
- Reports
- Interacts

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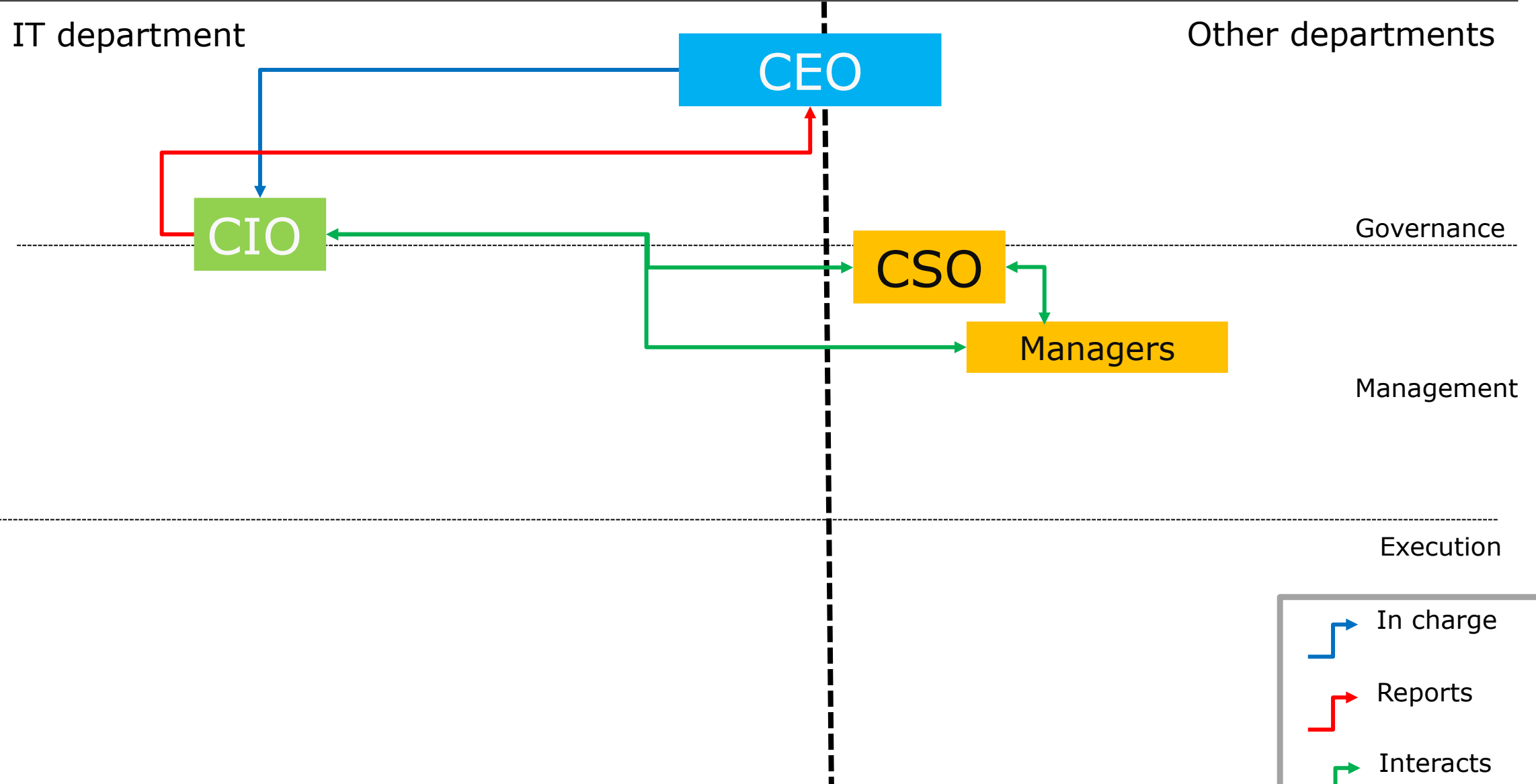
CIO (Chief Information Officer)

- The CIO is responsible for aligning information technologies with the company's strategy. This person focuses on improving the efficiency of processes and on the analysis of new technologies.

The CIO

IT department

Other departments



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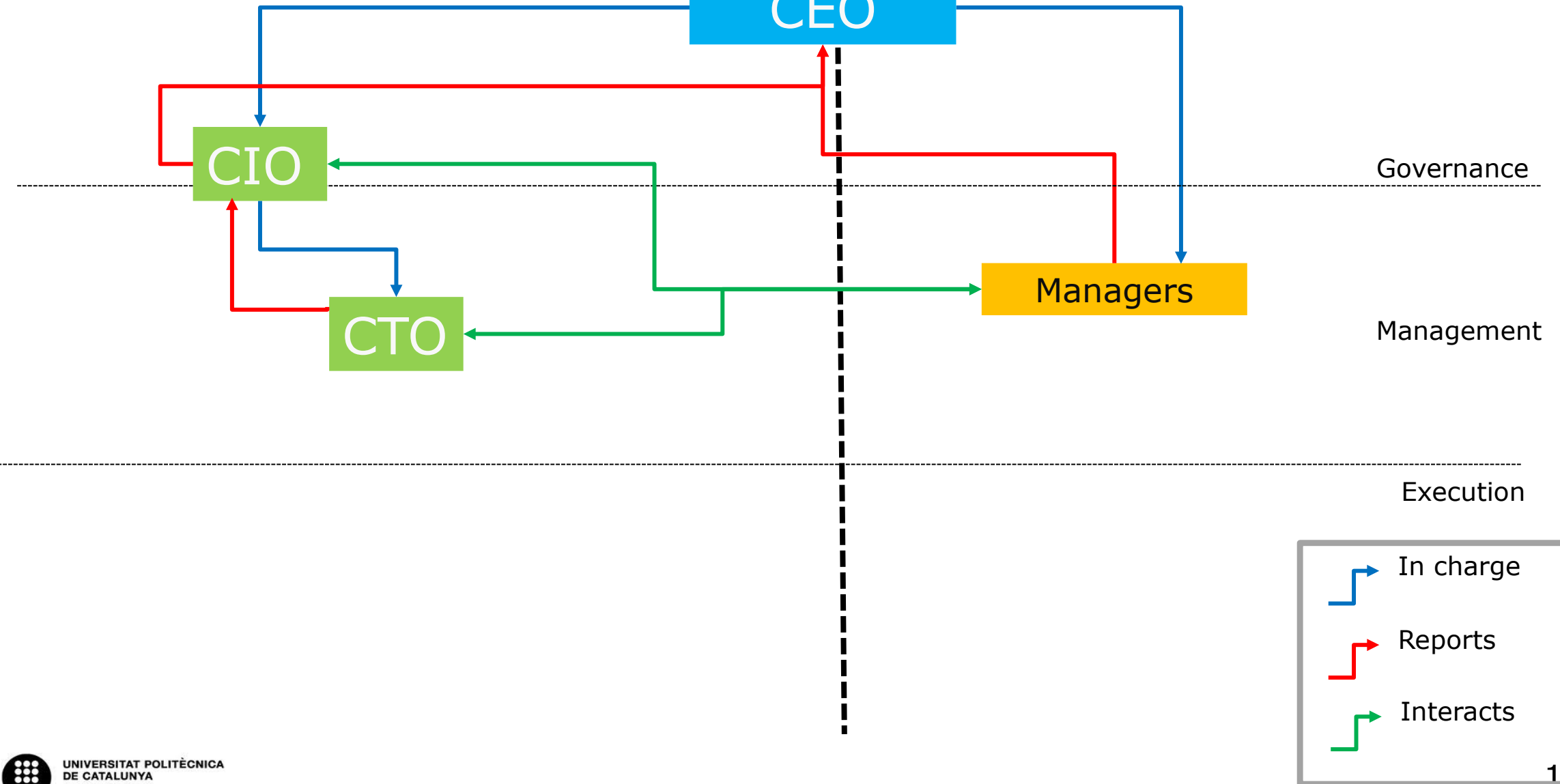
CTO (Chief Technology Officer)

- CTOs are responsible for information technology. This role is quite similar to that of a CIO, but the approach in this case is more technical, focus on management and not on strategy

The CTO

IT department

Other departments



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CISO (Chief Information Security Officer)

- The main role of CISOs is to monitor and analyze the risks that a company face in order to guarantee data and information protection.

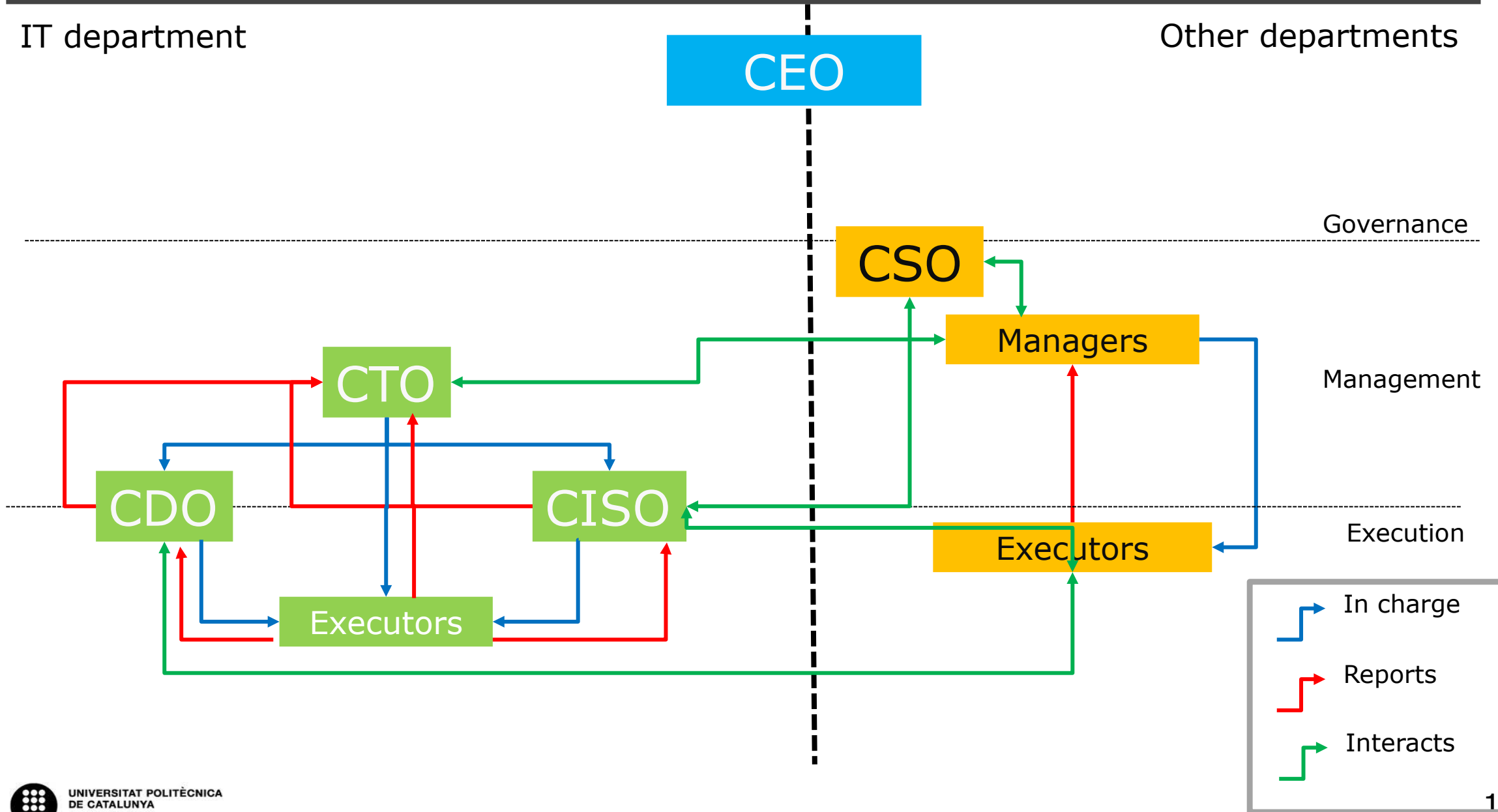
CDO (Chief Data Officer) – New figure...

- The CDO is the person in charge of the data strategy (analysis, protection & privacy).

The whole picture

IT department

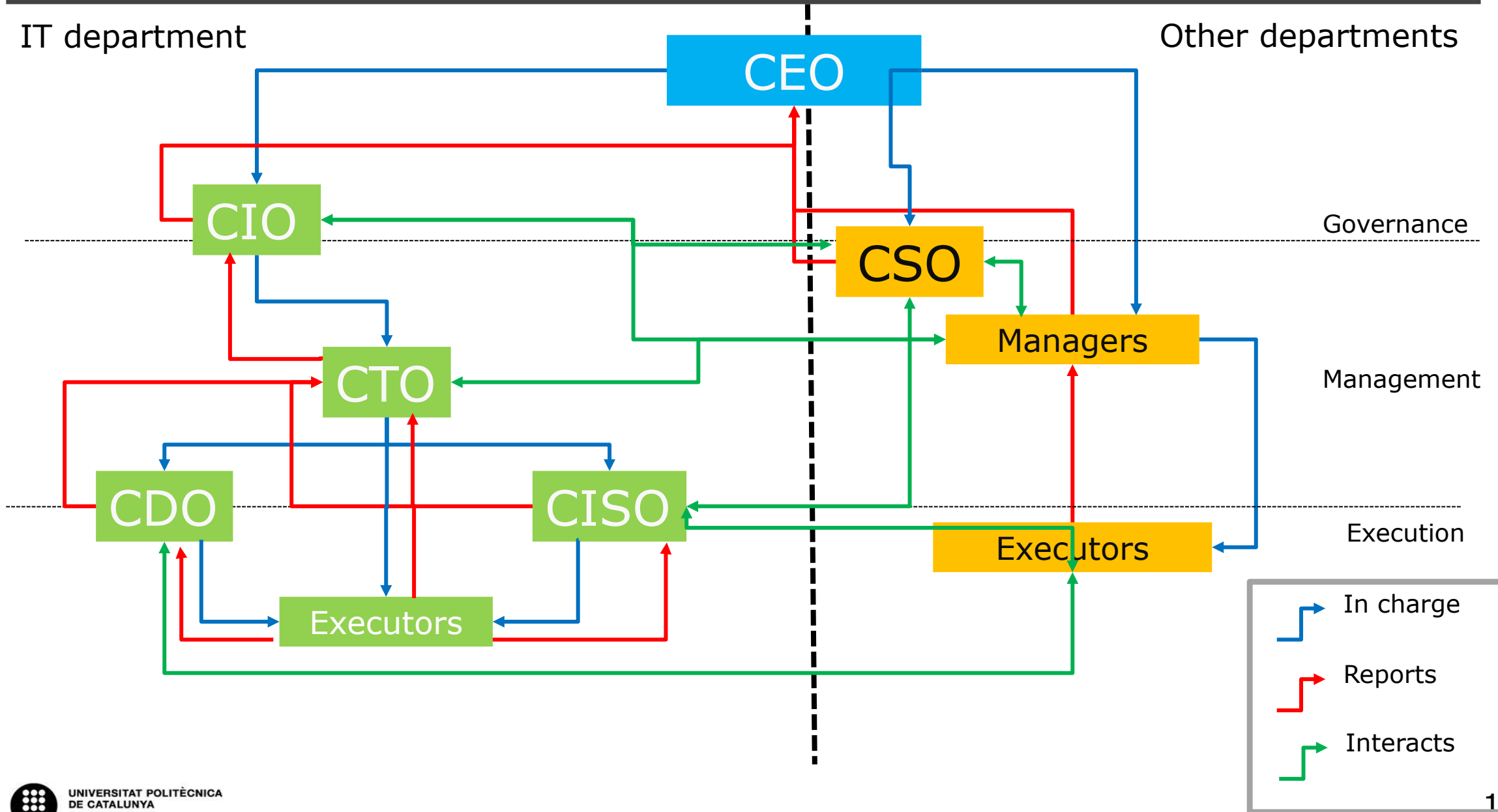
Other departments



The whole picture

IT department

Other departments



Quina informació necessito?

Quines tasques són de Governança/ Direcció/ Execució?

Quines corresponen a CEO/ CIO/ CTO/ CISO o CDO?

Problema: Adquisició d'un sistema de disc centralitzat i millora de la gestió de dades

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- Comerç electrònic, garantir qualitat de servei (QoS)
- Decisió de si migrar quelcom al núvol (per exemple, el correu corporatiu)
- Substitució dels servidors de càlcul actuals (no PCs, servidors)
- Reducció del PUE
- Definir una política de seguretat (organització de la política, no resposta)
- Anàlisi de la gestió actual de màquines virtuals / serveis de l'empresa que es poden virtualitzar
- Incorporar eines de Big Data/IA per analitzar comportament de clients i cercar tendències (per exemple, essent un banc)



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