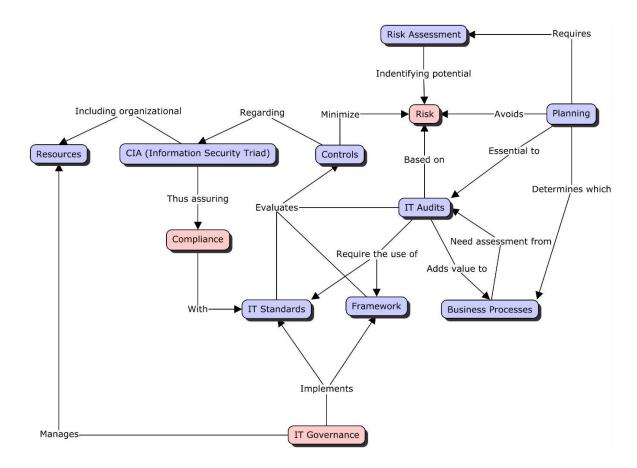
1 – Conceptual analysis



Concept	Definition
Business Processes	Set of diverse tasks linked to one another in specific sequence thus producing a service or product that will be offered to the customers .
CIA (Information Security Triad)	Triad that constitutes one of main pillars of knowledge about Information Security . The three letters stand for confidentiality , integrity and availability . Management -wise this is used as a model to evaluate the information security of an organization .
Compliance	Goal that organizations aspire to achieve through efforts that ensure they comply with relevant laws , policies , and regulations .
Controls	Procedures assuring that the Information Technology that an organization is using operates as intended .
Framework	Set of definitions providing information on how an IT Audit should be planned and conducted .
IT Audits	Examination of the management controls within an Information Technology Infrastructure and the review and evaluation of such information systems .
IT Governance	Processes that help an organization thrive in its goals through the assurance of an effective use of Information Technology .
IT Standards	Information required to meet the compliance pre-requisites of Information Security audits, but also providing guidance to improve effectiveness and efficiency.
Planning	Management process that involves the \grave{a} -priori decision of what the organization is meant to do and how it should proceed in order to achieve its goals.
Resources	Supplies such as staff money or stocks required to accomplish planned activities.
Risk	Probability of a negative event occurring leading the organization to potential danger .
Risk Assessment	The identification and the analysis of potential events that may negatively impact the organization .

2 – Description of the analysis

With this concept map I plan on delving deeper in the analysis of the following topics:

- Firstly, risk and resource management are activities both assessed by IT Governance integrating the best
 practices thus ensuring that an organization's IT is aligned with the efficient management of IT-related
 risks and resources.
- Also, I plan on demonstrating that IT audits are a risk-based approach that not only contribute to risk
 assessment but also to the evaluation of controls that ultimately help serving the purpose of risk
 minimization including that of information with respect to its confidentiality, integrity and availability (the
 CIA triad of information security). Since these properties are key factors when it comes to IT auditing, I
 included a link relating them with organizational resources since they might be used during IT audits to
 obtain the results an organization expected.
- Furthermore, I show that these information security requirements mentioned above (CIA Triad) when
 properly assessed during IT audits not only do reduce risks but assure compliance with the IT standards of
 put in place by IT Governance.
- I also display the importance of IT Governance integrating the best standards and frameworks to ensure
 the IT not only aligns with the goals of the organization thus offering value, but also managing the risk and
 resources associated with IT efficiently. By following frameworks like COBIT and through IT auditing
 following a set of controls we make sure an organization fully complies with the IT standards implemented
 by the IT Governance.

Finally, one can observe the point that links all these topics are both **Risk** and **Compliance** provided by the concepts implemented by **IT Governance** and evaluated through **IT Audits**. We can observe that both these concepts when properly synchronized through the use **Frameworks** and **Standards** will help by reduce potential **risks** thus assuring **information** is properly **secured** thus **complying** with the **IT standards** set by the **company**.

3 - Research

Data is at the center of **Information Systems**. An **Information System** can be characterized by its composition of **people** and/or **computers** that **process** or interpret **information**.

Nowadays data is the main way an organization will learn what to do and improve or put in practice what will lead to its success and the achievement of its goal. With this being stated, the possession of large amounts of data on its customers is not a positive sign. Having such data can be problematic since there has been lots of discussions about the abuse of personal privacy by companies making the general population distrust large companies.

In the present-day **organizations**, especially their **governance** structure, must be **keen** and **assure compliance** with **GDPR** and **risk management** techniques because the game is no longer about how **data** can help a **company** achieve its **goals** but how **legitimate** is the use of such data by the **companies**. The lack of **compliance** with **GDPR** has thus become a violation of **customer privacy** and the **information** that **companies** maintain of their **customers** shall be **subjected** to great **scrutiny** by the responsible **Data Protection Officers** (DPO). Alarming cases, such as the one mentioned in the *Timelex* document about the furniture manufacturer in Denmark that was subjected to a 200.000€ fine for **mishandling customer data** in their **IT systems**, are great examples of a **governance policy** that failed to **comply** with proper **resource management** and **information preservation** regulations.

Finally, one can observe that the **governance** of a **company** as to be aware of the **risks** of poor **records management** and improper **information retention** and subject itself to processes such as **IT audits** that make sure the **companies**' **data policy** and **framework** successfully **comply** with **standards** and **regulations** such as the **GDPR** in order for the company to **achieve** its goals and **avoid** diminishing **credibility** and dealing with the resultant **public exposure**.

4 - Topic for discussion

The question I intend on discussing next lecture is related with the fact that with the advent of large-scale cyber-security attacks risk reduction and threat exposure are each day becoming hotter topics in modern-day enterprises. Thus, I would like to understand how compliance with ISO standards reduces risk and protects international companies with large-scale distributed databases and sensitive information from attackers that might exploit vulnerabilities that corporate management did not know existed. Following this question, I would like to understand how enterprises should behave if data exposure happens.