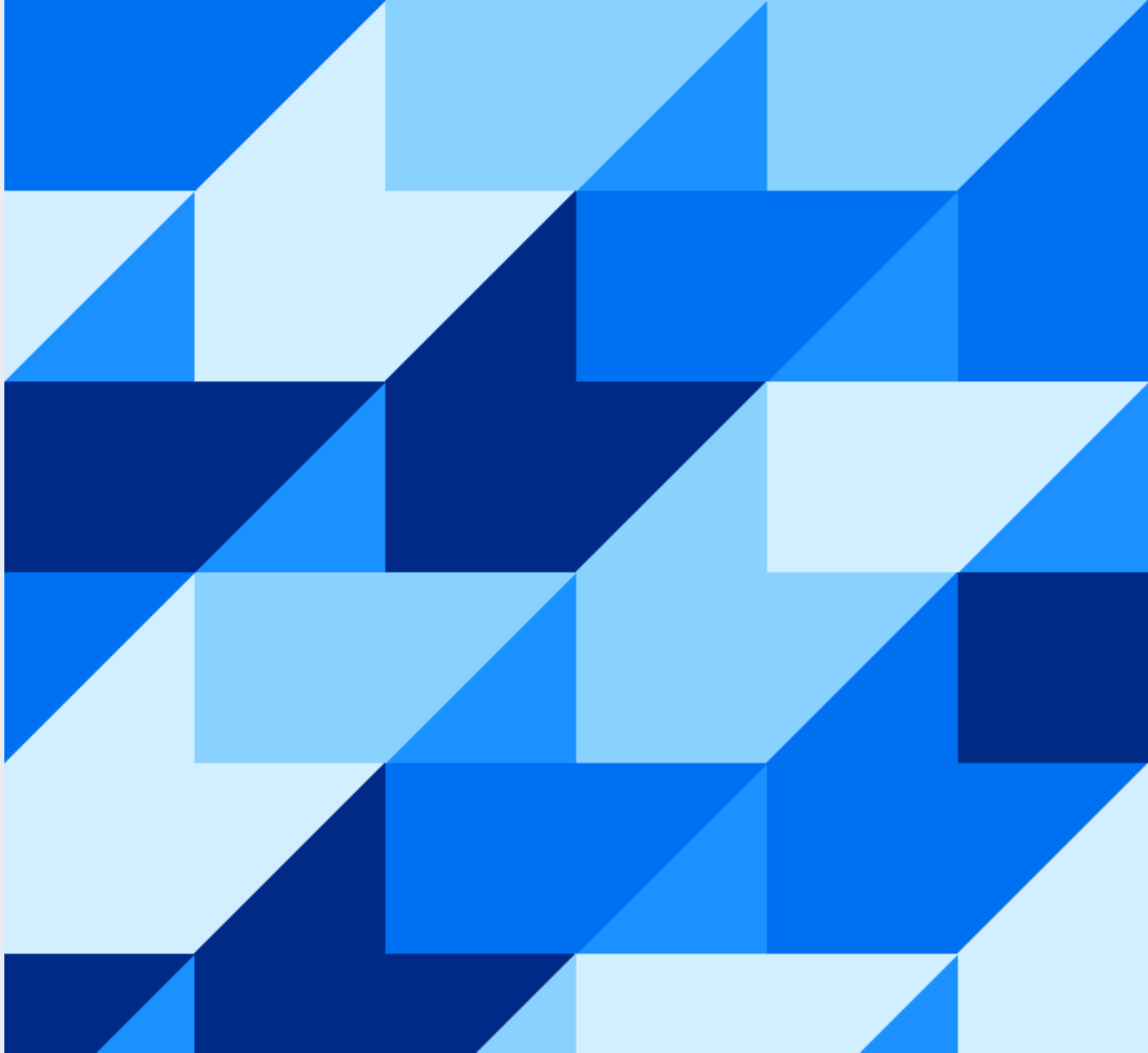# Introduction à la Business Intelligence

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SAP

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Todays Agenda

- Overview of SAP

- What is Business Intelligence?

- What is the Business Intelligenece course scope?

- Module structure

- Hands on session

- Over 400 million users access SAP's cloud applications

- SAP's software has been used in some unexpected places, including the International Space Station, where it helps astronauts manage inventory and logistics.

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Overview of SAP

- SAP (Systems, Applications, and Products) is a leading enterprise software company.

- Founded in 1972, SAP has grown to become a global leader in providing business software solutions.

- SAP's solutions help organizations streamline their operations, enhance productivity, and drive innovation.

- SAP systems handle approximately 77% of the world's transaction revenue, amounting to trillions of dollars.

- More than 440,000 companies globally rely on SAP's Human Capital Management (HCM) solutions

- Over 400 million users access SAP's cloud applications

- SAP's software has been used in some unexpected places, including the International Space Station, where it helps astronauts manage inventory and logistics.

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What is Business Intelligence?

What is business Intelligence?

Business intelligence (BI) : strategies and technologies used by enterprises for the data analysis of business information.

A set of methodologies, processes, architectures, and technologies transform raw data into meaningful and useful information used to enable more effective strategic, tactical, and operational insights and decision-making

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What business Intelligence does?

Common functions of business intelligence technologies include reporting, online analytical processing, analytics, dashboard development, data mining, process mining, complex event processing, business performance management, benchmarking, text mining, predictive analytics, and prescriptive analytics.

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What business Intelligence is used for?

Business intelligence can be used by enterprises to support a wide range of business decisions ranging from operational to strategic.

Basic operating decisions include product positioning or pricing. Strategic business decisions involve priorities, goals, and directions at the broadest level.

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What is the Business Intelligenece course scope?

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What is in scope?

- Semantic layer and modelling

- Chart and dashboard creation

- Reporting

- Planning and predictive analytics

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What is out of scope?

- Database and data sources

- ETL

- Datawarehouse

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Module Structure

Course structure

o Python with Pandas

o Business Objects
  o Semantic layer, WebI

o SAP Analytics Cloud
  o Visualization, reporting, planning, predictive

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Project ands grades

Project :
- Last class will be used for project presentation.
- You can work on this by team of two
- You will present it during the last class

Business Intelligence project:
- Find data
- Clean and Wrangle it
- Use BI tools to make a presentation that will explain / give insight on these data
- Use any tool you want
  - SAP SAC or WebI
  - Another BI tool
  - Python (pandas + seaborn) and/or D3
  - A mix
- Make everything fit in a cool presentation/demo of no more than 10 minutes.

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Where can I find Data?

- https://ourworldindata.org/
- https://opendata.paris.fr/pages/home/
- https://www.data.gouv.fr/fr/
- https://www.kaggle.com/datasets
- https://archive-beta.ics.uci.edu/

Pay attention to data set quality (eg: Kaggle usability and dataset type)

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Hands on Session

Hands on session

Repo GIT :

https://github.com/SAP-BI

User name: SAP-BI
Password : Sap_2024

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FAQ

➢ Puis je utiliser un autre outil que SAC (ont été nommés PowerBI, Qlik et Python - pour data prep & viz).
  ➢ oui - nous jugeons plus la démarche analytique que l'outil. Dans ce cas une explication du choix de l'outil et des avantages / inconvénients par rapports aux outils utilisés en TPs est conseillé

➢ Puis je présenter en Powerpoint avec des copier-coller de l'outil (par rapport à live démo avec les manips)
  ➢ Oui. Une live demo est toujours mieux mais ce n'est pas imposé. Cependant des explications sur la data manipulations et la partie technique sont nécessaires et nous aimerions beaucoup avoir des éléments concrets montrant comment vous avez utilisés un outil donné (entre autre, une courte manipulation / demo / video).
  ➢ Il faut prévoir 10 minutes par binôme ou par trinôme hors questions et environs 5 minutes de questions.

➢ Que devons-nous présenter et quels seront les critères d'évaluation du jury?
  ➢ Nous souhaitons que vous nous montriez comment vous vous y êtes pris pour analyser le problème. Un exemple de structure pourrait etre : présentation du data set, contexte, outils choisit et finalement demo"
  ➢ il n'était pas impératif de couvrir les aspects planning et prédictions (même si c'est évidemment possible).
  ➢ nous jugerons d'abord la démarche analytique (en gros des données aux insights), l'outil lui-même venant en second position
  ➢ In fine chacun recevra une note sur 20 qui sera la note du module BI

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Thank you !

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