

eleven - data augmented proposal challenge

To the attention of the Data Science
for Business' master students

January 31st, 2022



AGENDA



1. About eleven
2. Structure of a commercial exchange
3. Case presentations
 - a) The Right Price
 - b) Airplane Interior Service
4. General information
 - a) Expected output
 - b) Practical information

eleven is Europe's first ever specialist strategy firm specifically founded to accompany clients' transformation through the AI and digital revolution, thanks to a unique combination of strategy perspective and hands-on approach



DIGITAL & AI STRATEGY SPECIALIST

revolution is unlocking new, untapped value creation opportunities

STRATEGY X HANDS-ON POSITIONING

supporting C-level executives and organizations from strategic ignition to project scale-up and

A UNIQUE BLEND OF SKILLS

and data science ones, thanks to its 50+ consultants that master the continuously evolving

DISTINCTIVE ENTREPRENEURIAL MINDSET

to provide issue-based methodologies centered on your business needs

CSR AT THE CORE OF OUR DNA

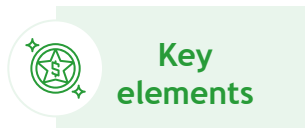
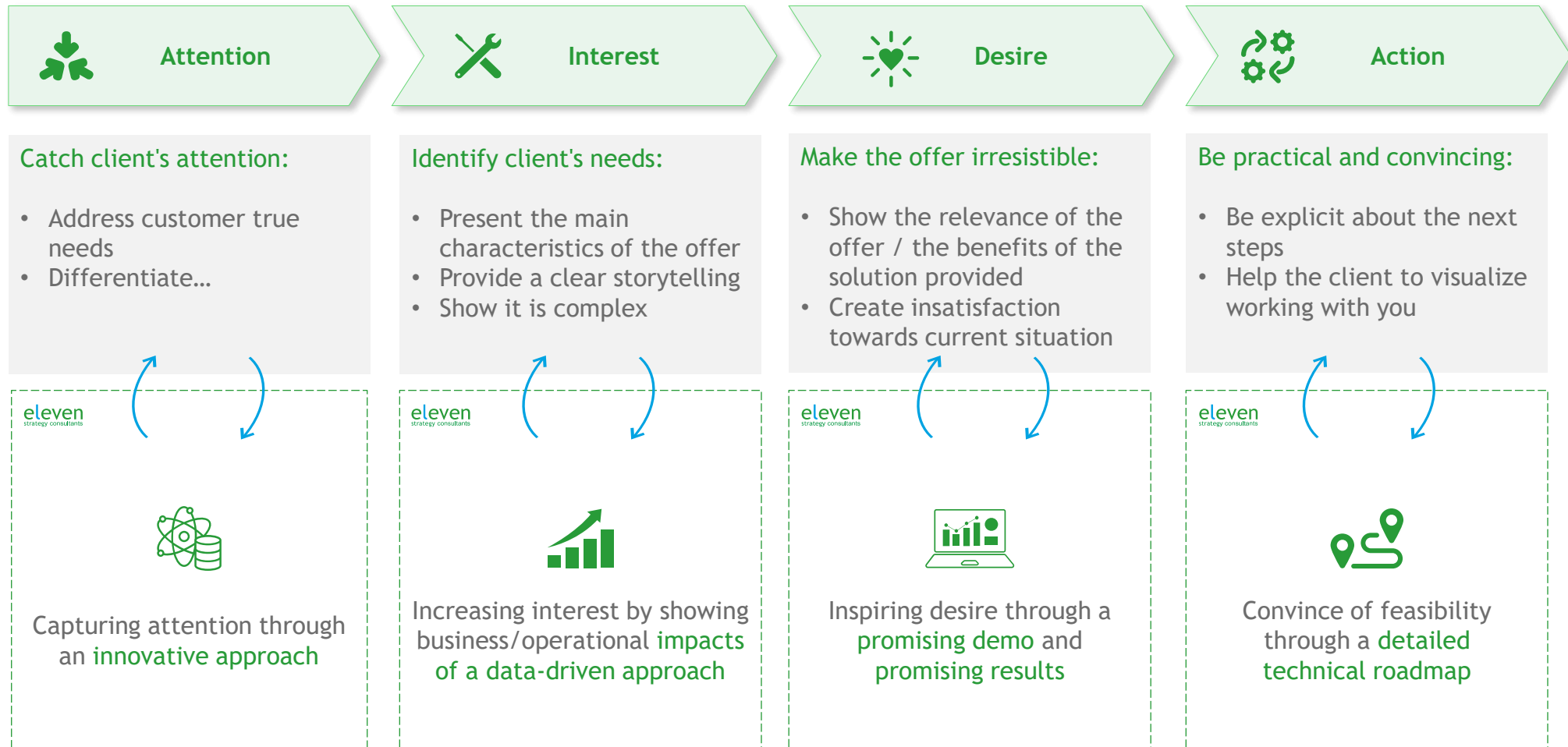
Our approach enables our clients' projects to meet CSR expectations. Both financial and CSR impacts are tracked, proven and reported thanks to our mastering of digital and AI levers

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Based on a major sales concept: **AIDA**, eleven relies on its **unique expertise** to provide **innovative** solutions to clients' problems



✓ **Data enriches the discourse** and makes it more effective at each stage of a commercial proposal

Your mission: structure a data-augmented commercial exchange

You are expected to deliver the following:

- Your **code used to solve the use case**, including any relevant dashboard, data analysis, model training, etc. This code **should be readable** by anyone, with a clear *Readme*, *requirements*, potential *quickstart.py*, etc.
- A “client-ready” **PowerPoint presentation** of your work, structured as follows:

1

Context: what do you understand from the project? Why is the context very complex?



- ✓ Present your **understanding** of the situation
- ✓ Include the **process**, the **needs**, the potential **ROI**, etc.

➤ c. 2/3 slides

2

Key Success Factors: what would be the reason of your success?

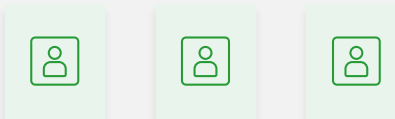
KSF	WHY?	HOW?
Business oriented		
Hands-on approach		
etc.		

- ✓ Explain the reasons of success: strong **interaction** with client? Deep **expertise** in AI?

➤ c. 1 slide

3

Team: who are you and what have you done? Why are you relevant to solve the case?

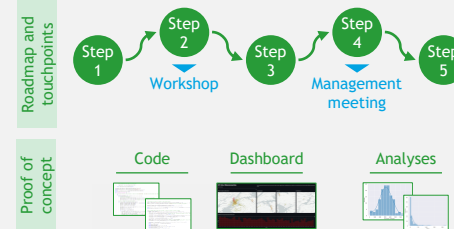


- ✓ Quickly **introduce yourself** and **why you are relevant** for this mission

➤ c. 1 slide

4

Proposed methodology: what could you do for the potential client?



- ✓ What you **could do**, **how**, what you have **already done**, any relevant **insight** to prove your expertise and **how much time** do you need for the mission!

➤ c. 6/8 slides

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eleven augmented proposal challenge: deliver a convincing commercial exchange to your prospect leveraging your dual expertise in business and data science



Exercise:

- ✓ Make groups of 5 people
- ✓ Choose among the 2 available topics
- ✓ On your topic, put yourself in a data consultant's shoes during a 1st commercial exchange:
 - ✓ What is the **context** of the company? (value chain, competition, technological trends, etc.)
 - ✓ How could you generate **added-value for them using potential of new technological enablers**? (time-series, NLP, computer vision, etc.)
 - ✓ How will the mission be **structured**? (roadmap, key steps, meeting with management, etc.)
 - ✓ Can you make a first assessment of the **feasibility** of your solution? (data visualization, 1st demo, etc.)
- ✓ Note that the best solution for your client **may not be the development of a custom-made solution**, but could be the acquisition of a company, some key partnerships, etc.
- ✓ **Synthesize your work** in a commercial exchange (up to 15 slides)
- ✓ **Upload your work** on the Sharepoint (presentation, code, etc: see details at the end of this presentation)
- ✓ **Present to the jury** and prepare for questions



The Right Price

How to estimate a property price?



Airplane Interior Services

How to increase customers satisfaction?



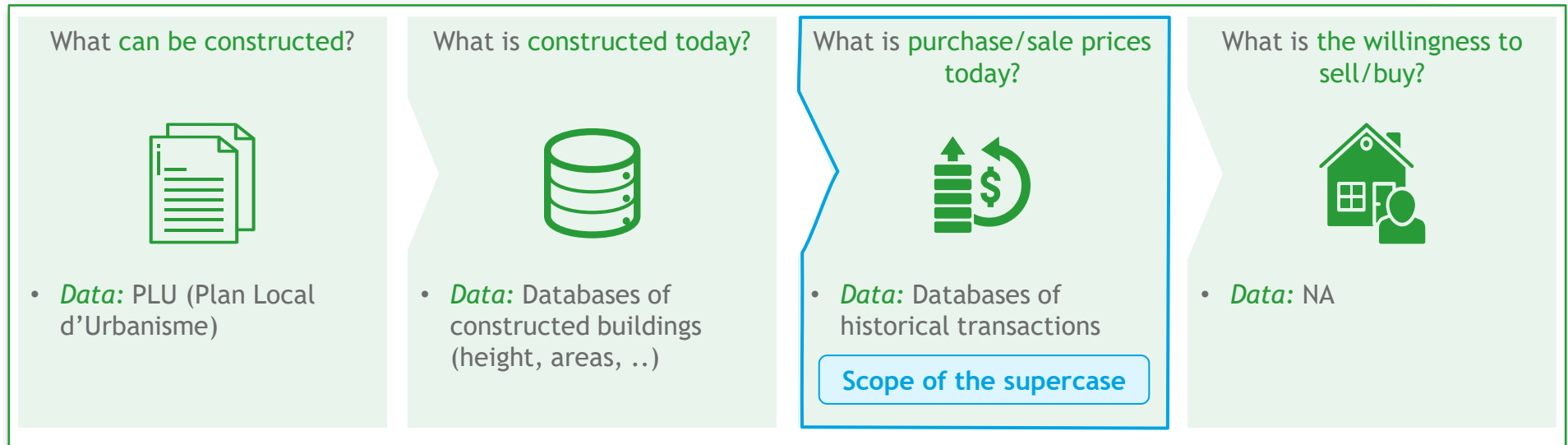
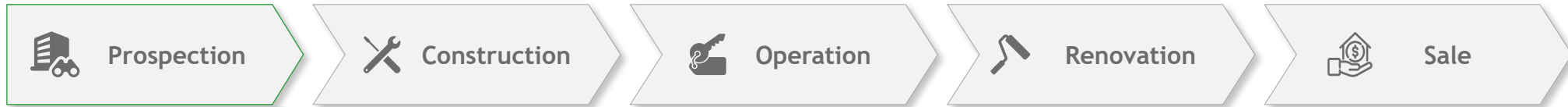
The Right Price

*improving definition and computation of
mutability score in Île-de-France*

Context: the potential client, a player in real-estate industry, wants to optimize its whole value chain, especially the purchase/sale price estimation

Value chain of a real estate development project

For illustration purposes



- Note that a price is useless without a related typology/area

E.g. In the same location a 60m² flat could be sold at 6000€/m² and a 40m² flat at 6500€/m²

Data available: you have access to geo-localized data from official mutation databases in Île-de-France, thereby providing valuable data sources with large and various information on the properties

Note that as in any data science project, the data may require further data engineering before being fully leverageable

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07/10/2016	2016	10	75	Vente	FALSE	339050.0	121	UN APPARTEMENT	2.3361317	48.865615	1	1	1	75101	1
11/07/2018	2018	7	75	Vente	FALSE	413438.0	121	UN APPARTEMENT	2.3334257	48.864586	1	2	1	75101	1
22/10/2018	2018	10	75	Vente	FALSE	3327000.0	14	ACTIVITE	2.3407276	48.862311	1	3	1	75101	1
06/02/2018	2018	2	75	Vente	FALSE	650000.0	122	DEUX APPARTEMENTS	2.3331821	48.864667	2	2	1	75101	1
04/09/2018	2018	9	75	Vente	FALSE	375000.0	14	ACTIVITE	2.3452226	48.860565	1	1	1	75101	1
09/02/2015	2015	2	75	Vente	FALSE	163000.0	121	UN APPARTEMENT	2.3413226	48.865097	1	2	1	75101	1
18/06/2020	2020	6	75	Vente	FALSE	768490.0	121	UN APPARTEMENT	2.3437107	48.863758	1	1	1	75101	1
07/06/2017	2017	6	75	Vente	FALSE	15000.0	14	ACTIVITE	2.3428064	48.861055	1	1	1	75101	1
13/11/2014	2014	11	75	Vente	FALSE	480000.0	121	UN APPARTEMENT	2.3413863	48.861495	1	1	1	75101	1
30/03/2018	2018	3	75	Vente	FALSE	823000.0	121	UN APPARTEMENT	2.3330651	48.863992	1	2	1	75101	1
14/09/2015	2015	9	75	Vente	FALSE	250000.0	121	UN APPARTEMENT	2.3448141	48.858214	1	1	1	75101	1
16/02/2018	2018	2	75	Vente	FALSE	2873000.0	122	DEUX APPARTEMENTS	2.3354345	48.866459	2	3	1	75101	1
11/03/2019	2019	3	75	Vente	FALSE	525000.0	121	UN APPARTEMENT	2.3356954	48.865197	1	2	1	75101	1



**Optional:
Bonus point**

✓ How would have you geo-localized this data by yourself?

Resources : You are free to **use any resources** you want, here are some recommendations to help you get started

Languages



We highly recommend you use Python even though same kind of results could be achieved with similar tools (with R for instance)

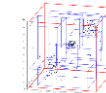
Relevant libraries



To develop a wide range of ML models



To use geo-localized visualization tools



Rtree

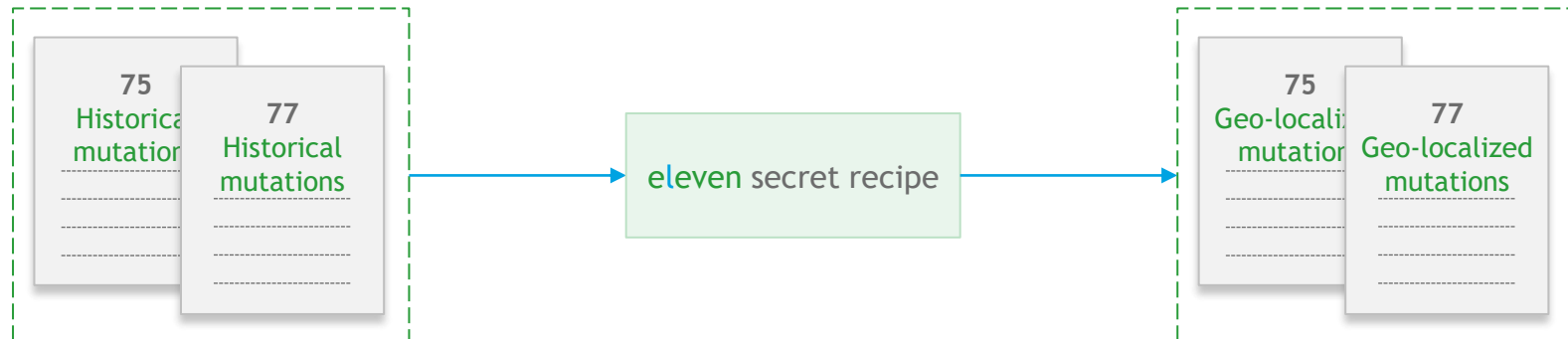
To use geo-localized advanced ML models



Streamlit

To efficiently develop a dashboard / front-end

For information: the origin source of the data



AGENDA

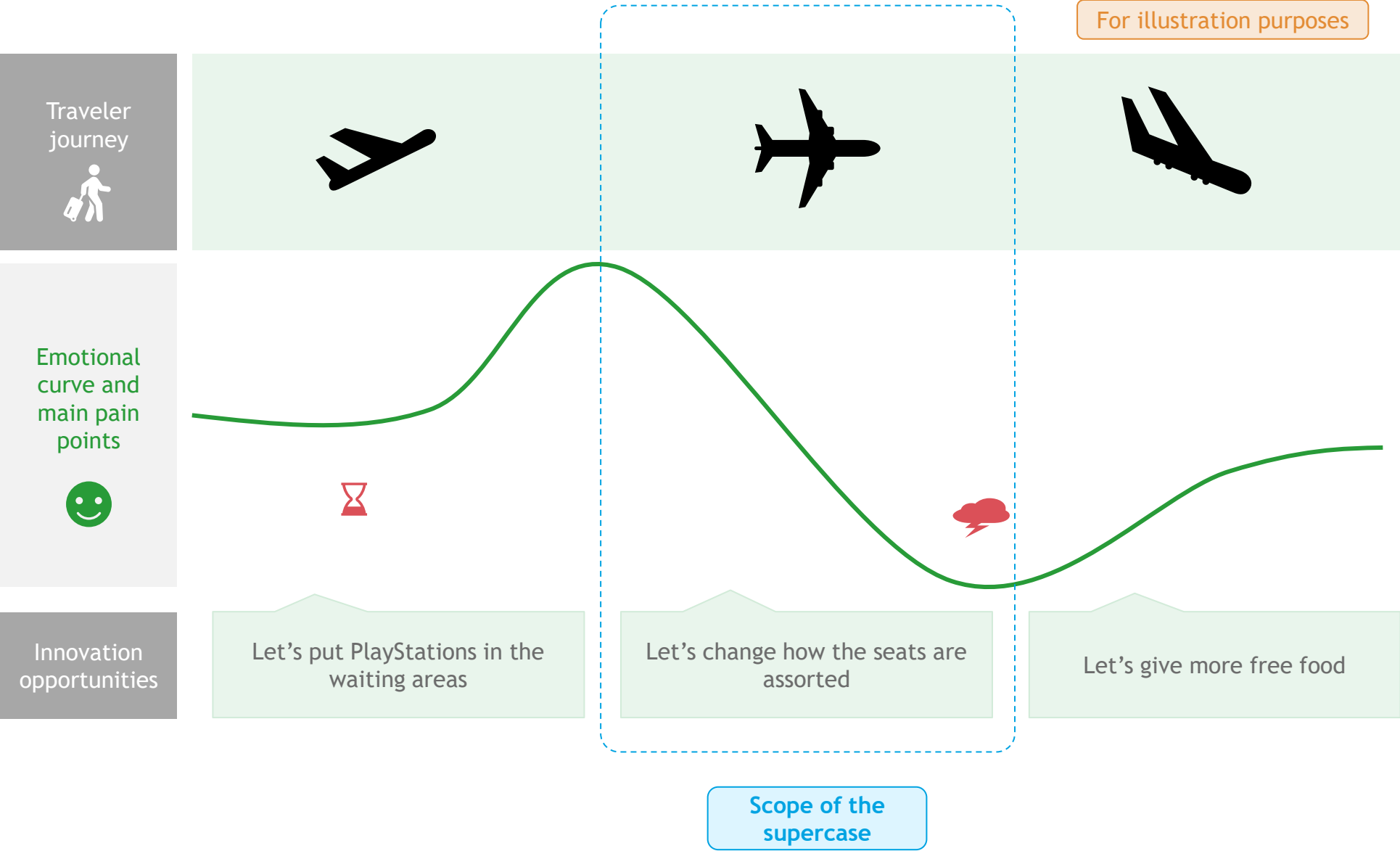


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Airplane Interior Services

*designing new airplane interior services based
on user experiences*

Context: the potential client, a player in the aeronautic industry, wants to understand how the user experience of airplane passengers can be improved



Data available: you have **access to scrapped data** from several websites enable users to share their experience, thereby providing **valuable data sources** with large and various information

Note that the data provided just comes out of scrapping process, hence it would require some data engineering before being leveraged



1/10

"a horrible airline to fly"

Rachel Beale (United States) 28th July 2019

✔ **Trip Verified** | Atlanta to Paris. Air France is just a horrible airline to fly, especially compared to delta. They do not update their movies on their tiny screen they put in front of you it's the same movie names repeated over and over to make it seem like there are choices. I found the food disgusting and they have no WiFi on the plane. I would not recommend flying Air France at all unfortunately due to work and my routes I've had to use them 4 times.




Type Of Traveller	Family Leisure
Seat Type	Economy Class
Route	Atlanta to Paris
Date Flown	July 2019
Seat Comfort	✖️ ⚙️ ⚙️ ⚙️ ⚙️
Cabin Staff Service	✖️ ⚙️ ⚙️ ⚙️ ⚙️
Food & Beverages	✖️ ⚙️ ⚙️ ⚙️ ⚙️
Inflight Entertainment	✖️ ⚙️ ⚙️ ⚙️ ⚙️
Ground Service	✖️ ⚙️ ⚙️ ⚙️ ⚙️
Value For Money	✖️ ⚙️ ⚙️ ⚙️ ⚙️
Recommended	❌

country	# number of reviews	date	rating	header	body	aircraft	scabin	airline
Netherlands	NA	2019-11-11	5	"pretty decent airline"	icoa... Trip Verified	Monro to MNA	NA	ab-aviation
United Kingdom	26 reviews	2019-06-25	5	"Not a good airline"	icoa... Trip Verified	Monro to E120	NA	ab-aviation
United Kingdom	26 reviews	2019-06-25	5	"Flight was fortunately short"	icoa... Trip Verified	Anquon to Emden E20	NA	ab-aviation
Netherlands	NA	2019-09-28	5	"I will never fly again with this airline"	icoa... Trip Verified	Please do not book	NA	ab-aviation
Netherlands	NA	2019-09-24	5	"It rained our last day of holiday"	icoa... Trip Verified	Do not book NA	NA	adria-airways
Austria	NA	2019-09-17	5	"Had very bad experience"	icoa... Trip Verified	Had very bad CR 900	NA	adria-airways
Switzerland	NA	2019-09-06	5	"worse than the budget airlines"	Not Verified	Ljubljana to ZKusNA	NA	adria-airways
Germany	NA	2019-08-24	5	"book another company"	Not Verified	First off, I am no bombardier CRJ	NA	adria-airways
Switzerland	NA	2019-08-06	5	"combined two flights"	icoa... Trip Verified	Worst Airline	NA	adria-airways
Germany	25 reviews	2019-10-12	5	"the crew was great"	icoa... Trip Verified	Ljubljana to TNA	NA	adria-airways
Germany	NA	2019-10-05	5	"Very bad flight experience overall"	icoa... Trip Verified	Zurich to Ljubljana	NA	adria-airways
United States	NA	2018-07-29	5	"bad customer service"	icoa... Trip Verified	Vienno to SC NA	NA	adria-airways
France	NA	2018-07-19	5	"overall very poor"	icoa... Trip Verified	We were tra NA	NA	adria-airways
Slovenia	NA	2018-06-30	5	"Would not fly again"	icoa... Trip Verified	Ljubljana to NA	NA	adria-airways
Czech Republic	NA	2018-06-26	5	"Very unpleasant experience"	icoa... Trip Verified	A very noisy A321	NA	adria-airways
Slovenia	NA	2018-06-14	10	"Flight was very comfortable"	icoa... Trip Verified	Frankfurt to NA	NA	adria-airways
Germany	NA	2018-03-11	5	"delayed for more than 2 hours"	icoa... Trip Verified	Ljubljana to NA	NA	adria-airways
United States	NA	2017-12-05	5	"Should be ashamed of their opene icoa... Trip Verified	Ljubljana to ATR-72	NA	NA	adria-airways
Slovenia	NA	2017-11-20	5	"Two nice short flights"	icoa... Trip Verified	Two nice shCRJ700 / ATR72	NA	adria-airways
Finland	NA	2017-10-27	5	"exremely bad service"	icoa... Verified Review	We were NA	NA	adria-airways
Switzerland	NA	2017-09-19	5	"never fly with this airline"	icoa... Verified Review	Ljubljana CRJ	NA	adria-airways
Switzerland	NA	2017-08-19	5	"can't remember a flight delay"	icoa... Verified Review	Ljubljana CRJ	NA	adria-airways
Austria	11 reviews	2017-03-27	5	"seat was quite comfortable"	icoa... Verified Review	Ljubljana Zurich 700	NA	adria-airways

Date	unknown	Company	Flight
29/12/2019	Seat 3C doesnt have any extra legroom.	aegean-airlines	airbus_a319-100
09/06/2018	I traveled Athens-Zurich with Aegean Airlines and the SX-DNB aircraft. I chose the 21A position. This place is awkward. The foot space is minimal, and the window is in an uncomfortable position. The display is two rows ahead .	aegean-airlines	airbus_a320-200
25/05/2018	very tiny leg room as I am quite tall. flight attendants friendly and meal ok.	aegean-airlines	airbus_a320-200
19/04/2018	Exit row 12F was nice for the 2.5 hour ZRH-ATH flight and back. Quite a few empty seats throughout the cabin both ways, and a nice meal service.	aegean-airlines	airbus_a320-200
22/07/2017	It is a wonderful seat at no additional cost (subject to availability during online check in) - more legdom and reclining.	aegean-airlines	airbus_a320-200



 **Baloo** wrote a review Sep 10
2 contributions

100

●●●●●

Delay

After getting inside the aircraft we were waiting about 2 hours on board, then they announced that they are gonna change our schedule. Because they have to change the aircraft. That's all somehow ok, but the worst part of the story is, that the pilot tried to explain what is...

[Read more](#)

Date of travel: August 2019

 Helpful Share

Praveen Chaudhary wrote a review Sep 9
Little India, Singapore • 44 contributions • 7 help

1

Flight to Moscow

You Have no choice to Fly to Moscow in 6 Hours other than AeroFloat. Which cannot offer you the Indian Food ,Indian Movies & even did not understand what you would like to express because they don;t understand English.Even the Very Common Words Seat in Business class is just the...

[Read more](#)

Date of travel: September 2019



**Optional:
Bonus point**

- ✓ How would have you collected this data yourself?
- ✓ Can you provide a quick demonstration of this working?

Resources: You are free to **use any resources** you want, here are some recommendations to help you get started

Languages



We highly recommend you use Python even though same kind of results could be achieved with similar tools (with R for instance)

Relevant libraries



To develop a wide range of ML models



TextBlob



Hugging Face

To develop topic-modelling algorithm as well as sentiment-analysis tools



Streamlit

To efficiently develop a dashboard / front-end

For information: the origin source of the data



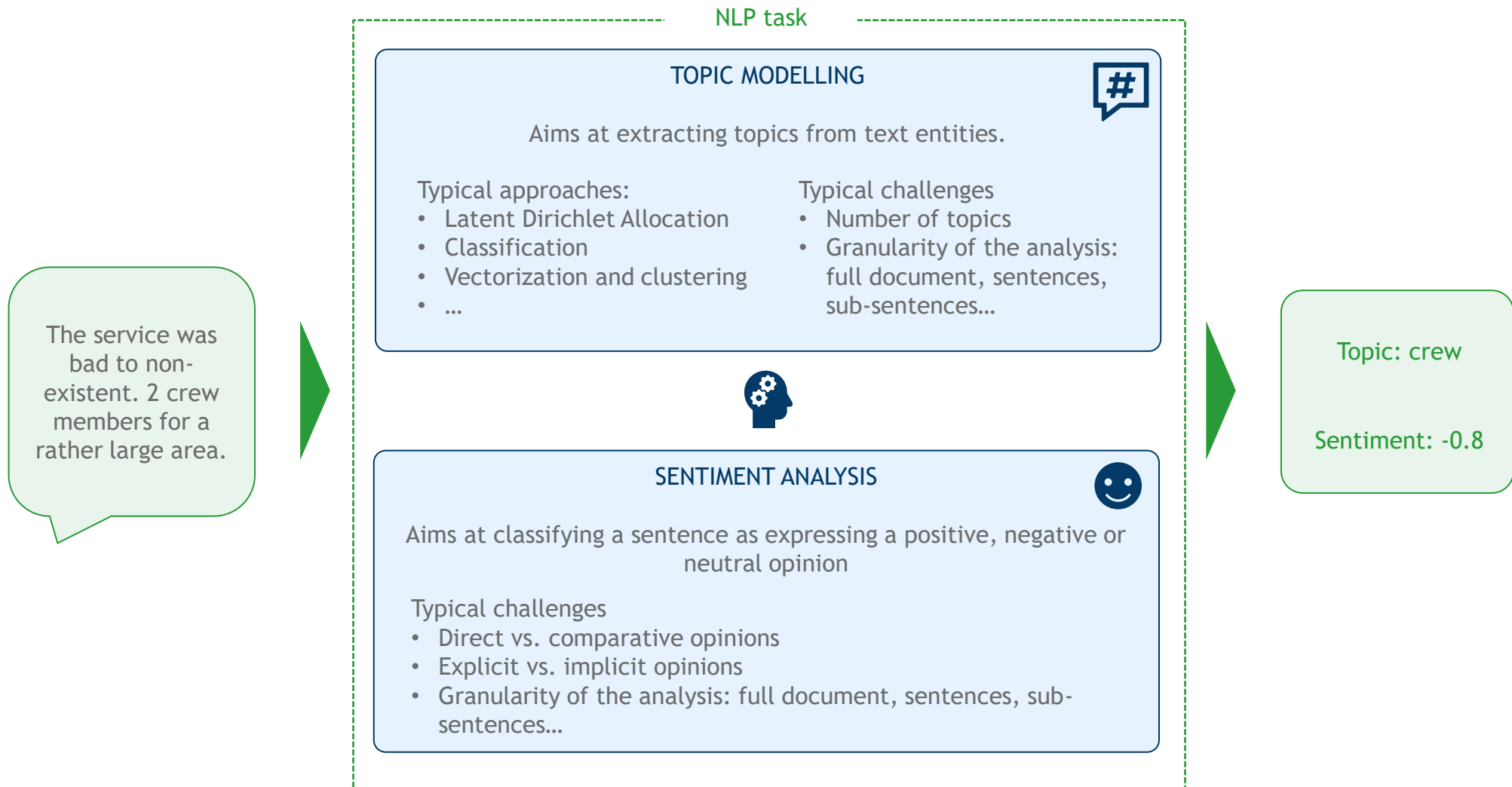
<https://www.seatguru.com/browseairlines/browseairlines.php>

https://www.seatguru.com/airlines/Aegean_Airlines/Aegean_Airlines_Airbus_A320-200.php



<https://www.airlinequality.com/review-pages/a-z-airline-reviews/>

Illustration: Topic modelling and sentiment analysis enable to derive valuable insights from customer reviews



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Expected output: how should you structure a commercial exchange?

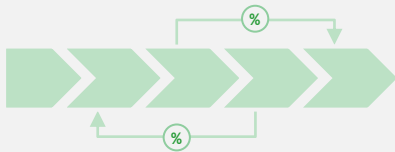
Reminder

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- A “client-ready” **PowerPoint presentation** of your work, structured as follows:

1

Context: what do you understand from the project? Why is the context very complex?



- ✓ Present your **understanding** of the situation
- ✓ Include the **process**, the **needs**, the potential **ROI**, etc.

➤ c. 2/3 slides

2

Key Success Factors: what would be the reason of your success?

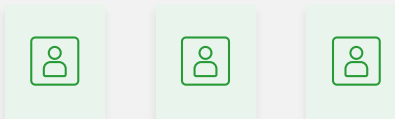
KSF	WHY?	HOW?
Business oriented		
Hands-on approach		
etc.		

- ✓ Explain the reasons of success: strong **interaction** with client? Deep **expertise** in AI?

➤ c. 1 slide

3

Team: who are you and what have you done? Why are you relevant to solve the case?

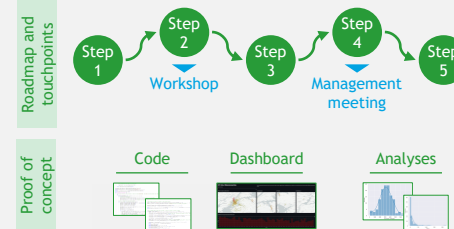


- ✓ Quickly **introduce yourself** and **why you are relevant** for this mission

➤ c. 1 slide

4

Proposed methodology: what could you do for the potential client?



- ✓ What you **could do**, **how**, what you have **already done**, any relevant **insight** to prove your expertise and **how much time** do you need for the mission!

➤ c. 6/8 slides

1 Context: example of potential output

For illustration



2 Key Success Factors: example of potential output

For illustration

Based on past experiences, eleven has identified **five key success factors** to successfully launch a first AI initiative

KEY SUCCESS FACTORS

WHY?

HOW?

1

**FOLLOW A
BUSINESS-ORIENTED
ADOPTION OF AI**

2

**ONBOARD THE TEAMS AND
BUSINESS STAKEHOLDERS
EARLY**

3

**MASTER AI TOOLS
AND METHODOLOGY**

4

**START SMALL
THEN ITERATE**

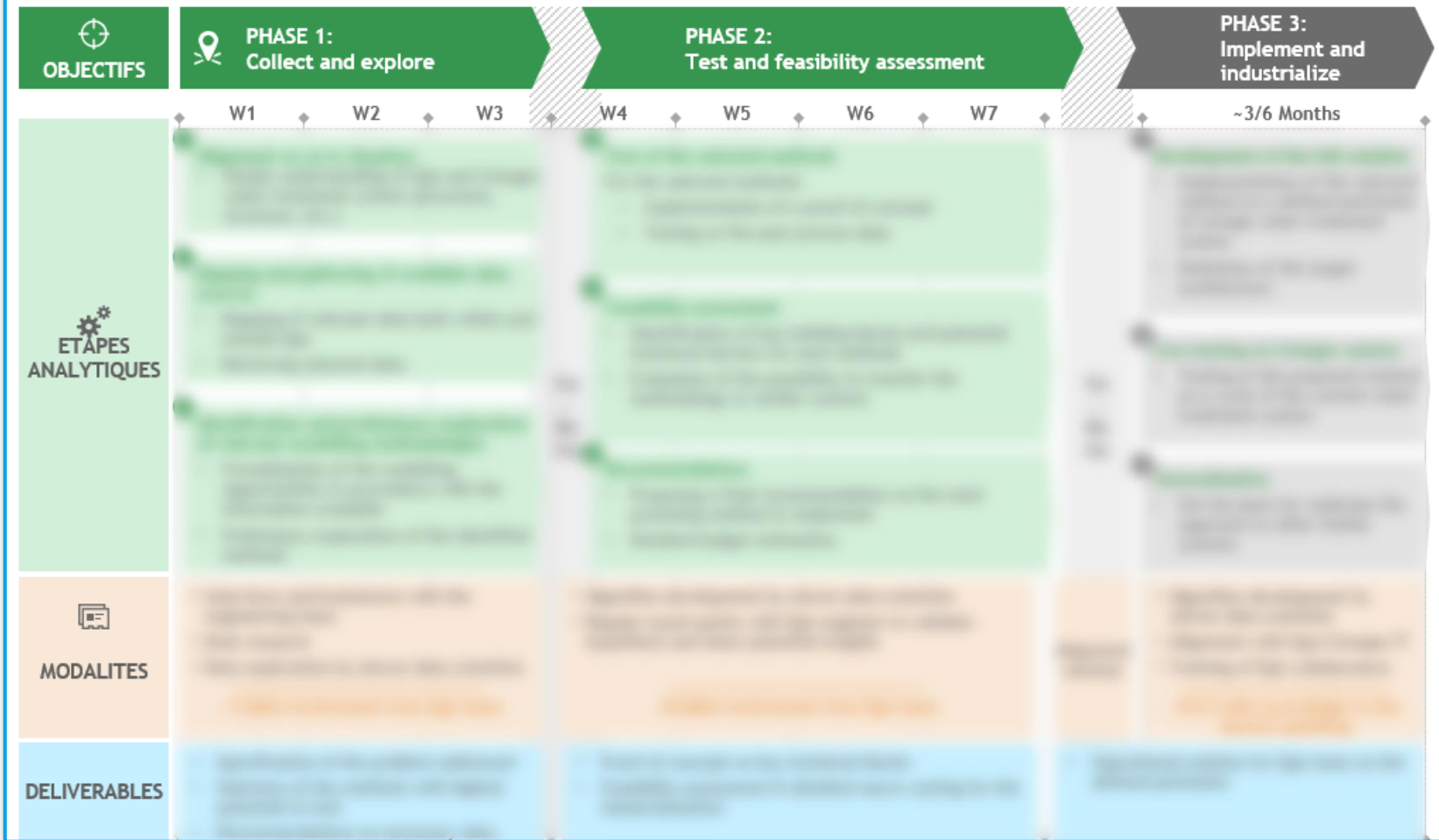
5

**FOLLOW A HANDS-ON
APPROACH**

4 Proposed methodology: example of potential output

For illustration

eleven suggests to carry out the mission following **two phases** in order to **remove potential technological barriers** before launching the implementation phase



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The Slack workplace

For this challenge, we opened a **Slack workplace** for you to ask your questions when eleven consultants are not on campus

On this workplace, you will find three channels:

- 1) **général**: for all questions and information related to the organization of the challenge
- 2) **TheRightPrice**: for all questions specifically related to *TheRightPrice* case
- 3) **AirplaneInteriorServices**: for all questions specifically related to *AirplaneInteriorServices* case

Additional information may also be pinned in these channels (schedules, classroom numbers, etc.)

Please use the right channel to ensure fluidity of the interactions

Before asking something, also make sure that the requested information has not been given already ;)



You may download the slack application on your device or access it via your usual browser

Download instructions & submission process

How to download datasets ?

You can download datasets and potential additional information at the following links:

- **Case #1: AIS** - [get your files here](#)

Mes fichiers > Hackathon X-HEC 2021-2022 > Data_shared > Case1 - AIS [🔗]					
📁	Nom ▾	Modifié ▾	Modifié par ▾	Taille du fichier ▾	Partage
📄	seatguru_python_scraping.csv	4 octobre	Jean SAUVIGNON	8,14 Mo	🔗 Partagé
📄	skytrax_scraping_2.csv	4 octobre	Jean SAUVIGNON	85,8 Mo	🔗 Partagé

- **Case #2: TRP** - [get your files here](#)

Mes fichiers > Hackathon X-HEC 2021-2022 > Data_shared > Case2 - TRP [🔗]					
📁	Nom ▾	Modifié ▾	Modifié par ▾	Taille du fichier ▾	Partage
📁	Data localisée	12 octobre	Oussama ENNOURI	8 éléments	🔗 Partagé
📄	lexique_variables.csv	21 septembre	Jean SAUVIGNON	4,51 Ko	🔗 Partagé

How to submit your works ?

Each group will receive a link by email with a Sharepoint folder to submit their assignment (both Presentation + Code)



Notes:

- You can organize your folder as you wish.
- You can keep old files that should not be submitted to the jury in a *0_Archives* folder

Proposed schedule for the two days: the timing may be short, do not hesitate to split the work between the members of the team



For illustration

	Monday 31 st	Tuesday 1 st	Wednesday 2 nd
AM session		Business <ul style="list-style-type: none"> ✓ Present your team and your relevance for the mission ✓ Describe the value chain of the client and the potential untapped levers Data <ul style="list-style-type: none"> ✓ Start data exploration and cleaning ✓ Confirm analysis to be led or models to be used 	Business <ul style="list-style-type: none"> ✓ Evaluate the added-value your solution could provide to your potential client ✓ Complete the expected methodology to answer client's needs Data <ul style="list-style-type: none"> ✓ Take a step back: evaluate the quality of your models ✓ Present your results - optional: presentation could include a dashboard
PM session	Kick-off (2pm - T201) Working Time (T207 + T208) <ul style="list-style-type: none"> ✓ Ensure your understanding of the value chain of the potential client ✓ Collect and explore the data ✓ Validate the analysis you would like to perform with the provided data ✓ Split the work between the team <p><i>Start sliding quickly, last minute slides could lead to poor final work quality</i></p>	Business <ul style="list-style-type: none"> ✓ Identify the Key Success Factors (strong interaction with client, hands-on, etc.) ✓ Start working on the methodology you could use to deliver a solution Data <ul style="list-style-type: none"> ✓ Perform any insightful analysis ✓ Build any relevant model 	Q&A (remote) <ul style="list-style-type: none"> ✓ 30' per group ✓ Planning on slack Final Pitch (1.30pm - T207 + T208) <ul style="list-style-type: none"> ✓ Be sure your slides are "client-ready" ✓ Upload both final presentation and final code ✓ Be prepared with all your speakers knowing their part Closing Session (5.30 pm - T201)

Final presentation details and best practices:

On **Wednesday 2nd**, you will have to present your work in front of a **jury** during a **closed-door session**

The modalities of the presentation will be as follow:

- **10min group pitch** based on a PowerPoint presentation
- **~10min Q&A session** with the jury
- **~10min debrief** from the jury

For each case, a winner will be announced. The two winner groups will then **present their work to the other students** (same modalities with questions from the students)

The presentation must be **as professional as possible**. Here are some advices and best practices that may be useful:



- **Structure your presentation:** start by stating the problem that you want to solve, then present the way you tackled it, and finally describe your solution. The “story” of the presentation should be natural and easy to follow
- **Be concise and precise:** focus on the most important messages, as you only have 10 minutes to present the work achieved. You should limit the number of slides you present (you can still add appendices if needed)
- **Be organized as a team:** split up the speaking time between the team members beforehand to make it smoother
- **Be honest:** tell where you encountered issues or challenges
- **C-suite level:** you should convince both the CEO and the CTO/CDO of the company

Evaluation criteria:

Although different in their essence, the cases will be graded based on **similar criteria**.

NB: any **provided code will be tested** in order to confirm its good functioning.

**The contribution of each criteria may not reflect the actual value of each step for a commercial exchange*

Topic		Description	Contribution to the final grade*
Engagement		The engagement of the team during the exercise (how far you've gone, how autonomous you have been, how much you have asked questions when stuck, etc.)	2 points
Business aspect	Presentation quality	The quality of your final presentation : how professional it looks (slide quality), how clear and complete it is (storytelling), how pertinent your answers are, etc.	3 points
	Business methodology	The creativity and relevance of the methodology (i.e. scientific approach) you choose regarding the problem you try to solve, and the data provided, the business sense behind your methodology and the pragmatism of your presentation	6 points
Technical aspect	Technical choices	The explanation of your technical choices and your ability to present them in non-technical terms	3 points
	Model efficiency or Analysis relevance	The performance of your model (specific to each case), the relevance for the problem in question , the quality of the analysis led	5 points
	Code good practices	Your code must be well structured , easy to run and easy to understand with clear readme and requirements.	1 point

Please note that all groups will be graded at the end of the week

Enjoy the challenge!