

Nom du Projet: Project Challenge UTAC

01. What is the Problem?

Contexte/ Enjeux

- Rise of road insecurity.
- High traffic jam in cities.
- Increase of car emission carbon.

02. What is your Proposition

Rationale: why/how refs

- Autonomous car which can detect obstacles in the road.
- Vehicle that can plan the trajectory thanks to LIDAR radars and cameras
- Intercommunication with environment : V2X (mostly V2V, V2I and V2N)

This is an incredible idea?
AVANTAGES & BENEFICES

03. Strategy chose your Valo

PI, Partenariat,

- VALO CONCOURS : because we are going to participate to the UTAC contest
- In a second time VALO PARTENARIAT because we are working in partnership with a PFE group

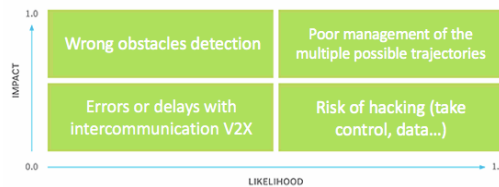
N° projet: 74

04. Risks (choix matrice ou citez les risques)

Concurrences/Can't be easily copied..

- A lot of competition in the market
- Ethic risks of accident management.

Risk matrix example



05. Opportunities

Les points forts/ Les + innovations

- Intercommunication with vehicles.
- Fusion of data.
- Alert to other user of the road.
- Detection of obstacles and planning trajectories thanks to machine learning.

06. Roles and responsibilities: who?

NAMES	VALO suivie	SKILLS
Pascal Chen	Propriété intellectuelle	SE
Lucas Rietsch	Partenariat	SI
Justine Reynaud	Initiation Recherche & Innov	Ocres
Franck Zhang	Initiation Recherche & Innov	Finance
Pierre Moreau	Concours/Start-Up	SE
Elyes Zahar	Innovation	SI



La Vision de votre groupe:

Mot Clés: autonomous, connected car, trajectory calculation, obstacles avoidance, connexion V2X, IoT, Robotics, images processing, machine learning

Secteurs d'activités : Cars manufacturers, Smart cities, UTAC Challenge

07. Roadmap: when?

Milestone	Deadline
Preparation of specifications, check with mentors	Week 41
Conceptualization of the solution and what we need to provide	Week 43
Submission of specifications	Week 45
Conception of the solution HARD WARE	Week 47
Conception of the solution SOFT WARE	Week 49
Delivery of functional and technical specifications and list of equipment	Week 51
Beginning of the realization	Week 4 (2021)

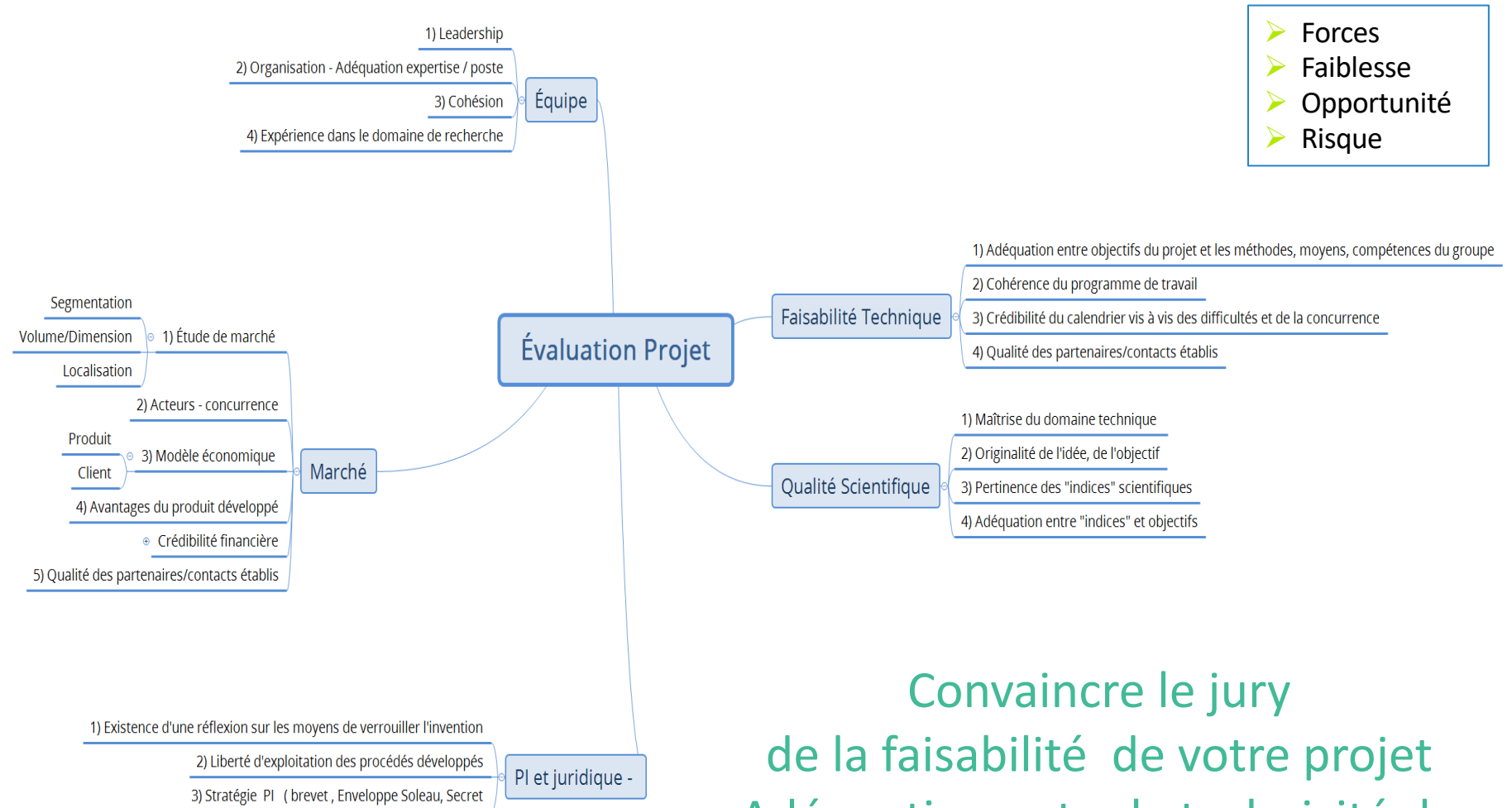
08. Outside partner(s): who else?

- ▶ Company: PFE Group in ECE
- ▶ Key contact:
- ▶ Mentors : Neila BOUCHEMAL and Jae Yun JUN KIM

09. Bonus ?

- ▶ Environmental & social Cost: Batteries fabrication
- ▶ Environmental & social Benefit: Energy saving
- ▶ Concours Bio Inspiration

Critères d'évaluation pour la 1^{ère} semaine SPRINT



- Forces
- Faiblesse
- Opportunité
- Risque

Convaincre le jury
de la faisabilité de votre projet
Adéquation entre la technicité du
projet, l'équipe et le choix de la valo (s)