Discrete 3D surfaces of revolution

Final presentation

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Outline

Outline

Collaborators and clients

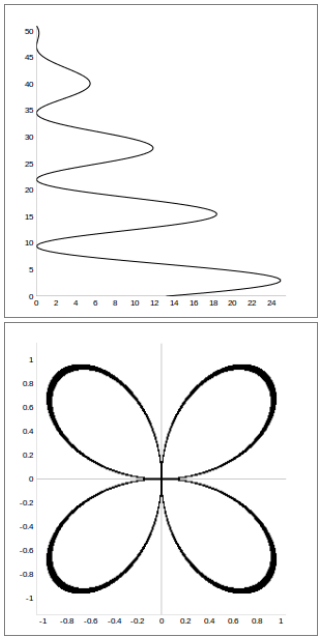
- Clients :
  - Éric ANDRES (Professor and former director of XLIM-SIC department)
  - Gaëlle LARGETEAU-SKAPIN (University lecturer, Discrete geometry)
- Exemple of final user :
  - Aurélie MOURIER (Artist)
- Pedagogic Supervisor :
  - Philippe MESEURE (Professor, Computer Graphics)

Roles

- Team composition :
  - Thomas BENOIST - Project manager
  - Zied BEN OTHMANE - Quality manager
  - Adrien BISUTTI - Risks manager
  - Lydie RICHAUME - Tasks manager

Context

- Éric Andres and Gaëlle Largeteau-Skapin developped a new algorithm to model discrete surfaces of revolution.
- Display the result with Mathematica



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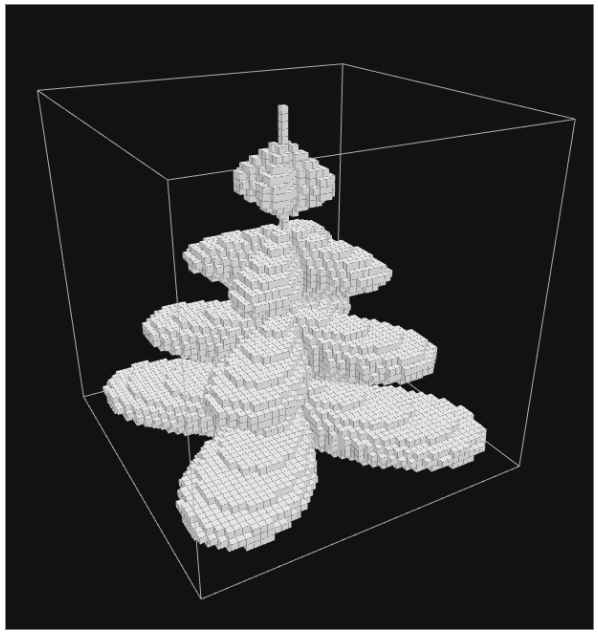


- Need of a tool useable by everyone and everywhere

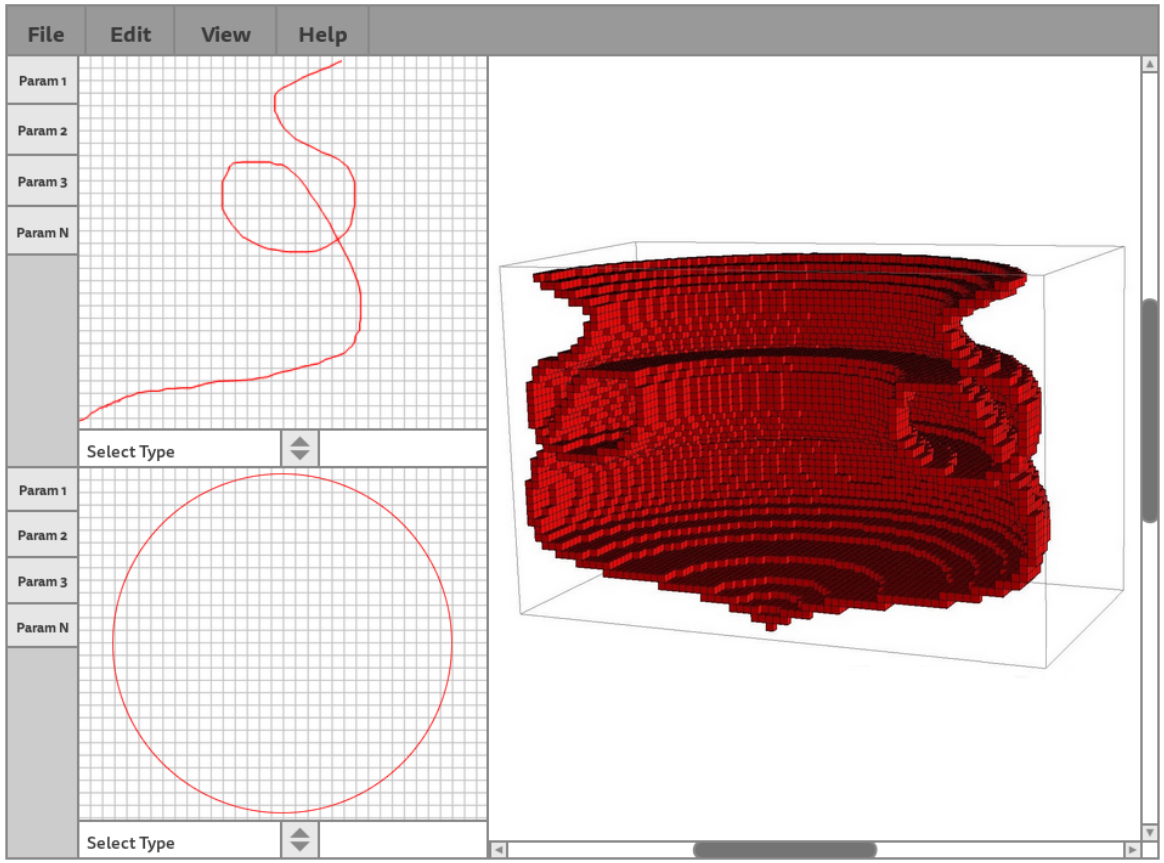
Objectifs

- Outil de visualisation de surfaces
  - Visualiser en 3D, en coupe
  - Choisir les méridianes et les courbes de révolution
  - Exporter des objets obtenus
- Algorithme de construction des surfaces de révolution
  - Fourni par les clients
  - Possibilité d'évolution de l'algorithme

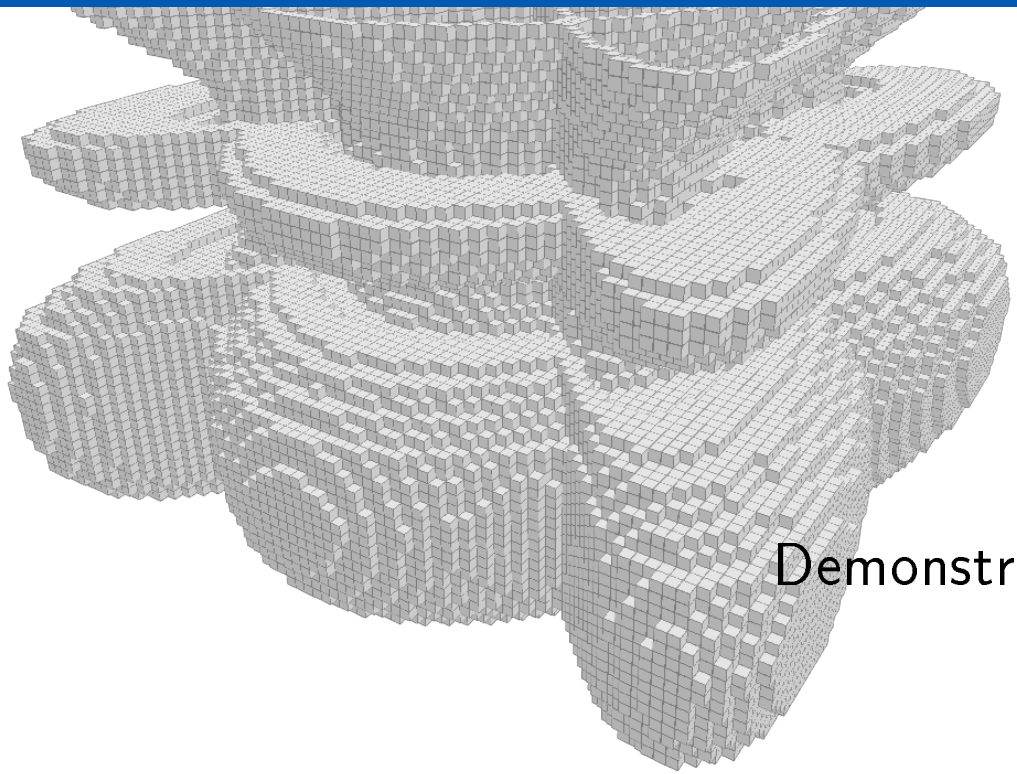
Outline

Maquette

- Listes des fonctionnalitées
- Étude et transcription de l'algorithme
- Documentation technique
- Maquette



Demonstration



Demonstration

Utils

- TODO

Outline

Gantt diagram

Diagramme prévisionnel

Diagramme réalisé

Zoom

Diagramme prévisionnel

Diagramme réalisé

Progress

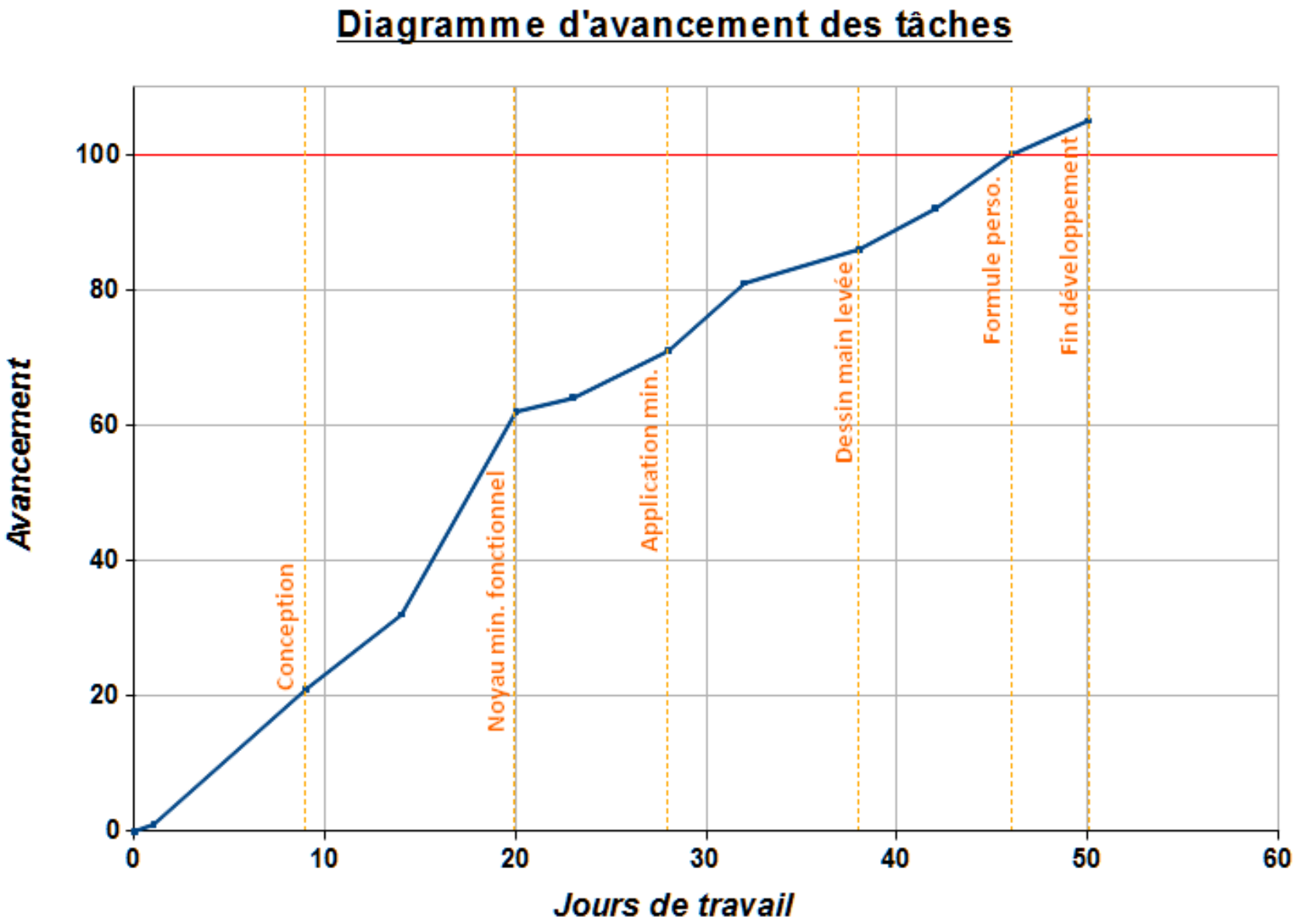
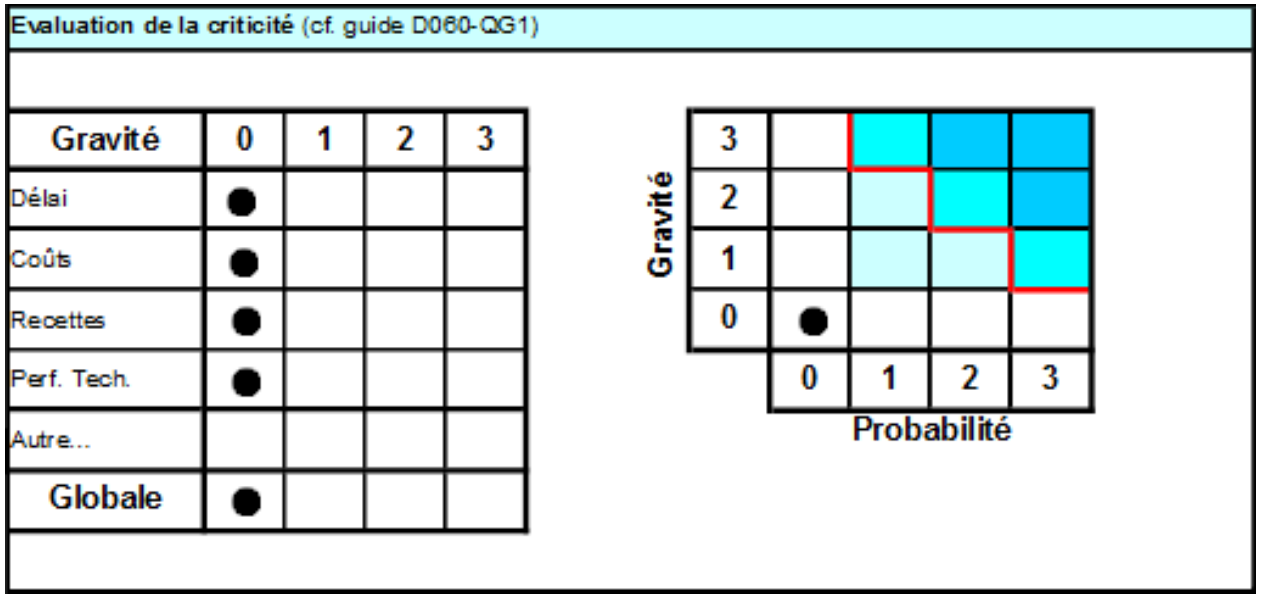


Diagramme d'avancement des tâches
Avancement
Jours de travail
0
20
40
60
80
100
0
10
20
30
40
50
60
Conception
Noyau min. fonctionnel
Application min.
Dessin main levée
Formule perso.
Fin développement

Risk evolution

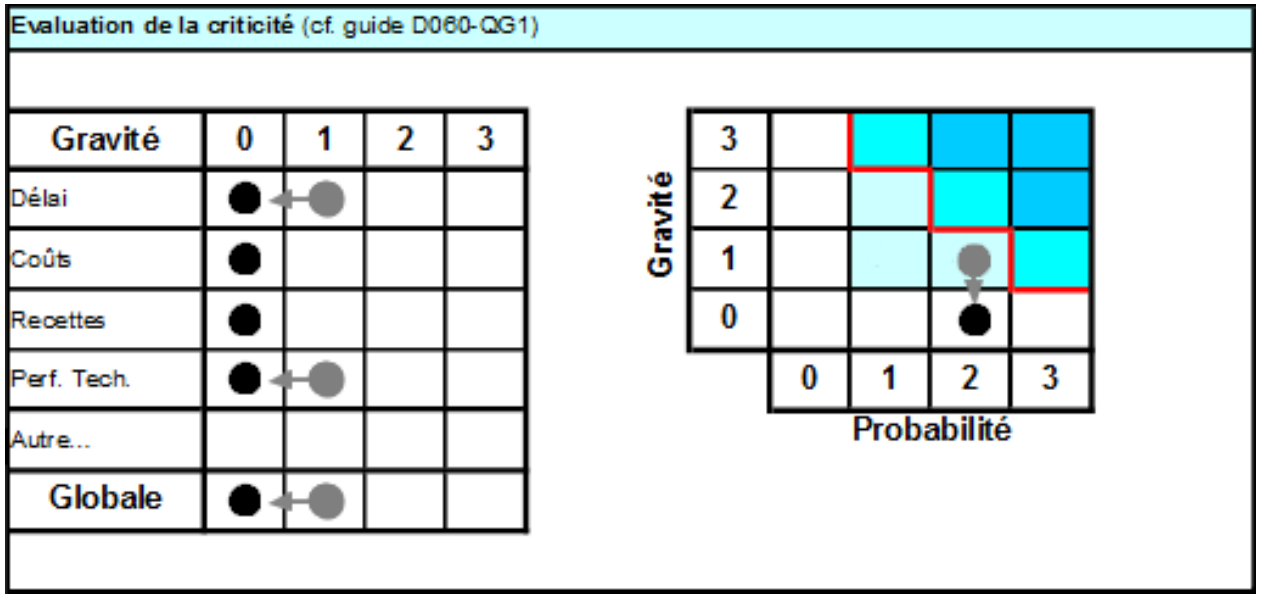
- Server linked problems



Level	Gravity	Probability	Criticity
0	Aucune	$< 1\%$	No critical
1	Faible (marges)	de 1% à 5%	
2	Significative	de 5% à 20 %	Critical
3	Danger	$> 20\%$	

Risk evolution

- New clients



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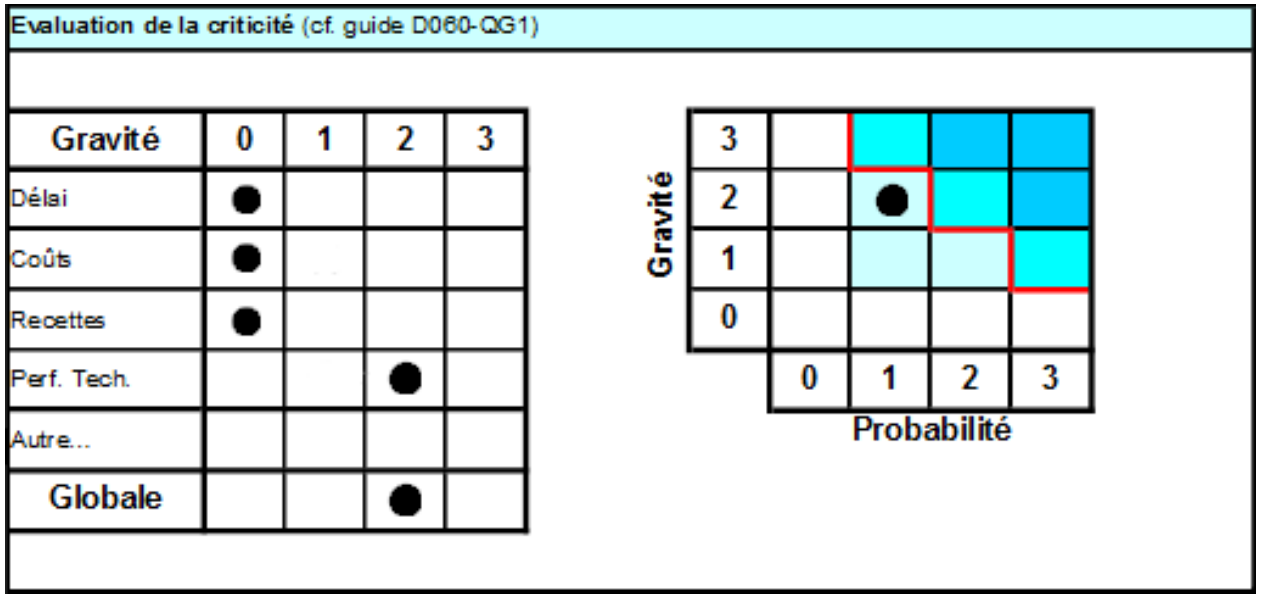
Risk evolution

- Generation algorithm evolution



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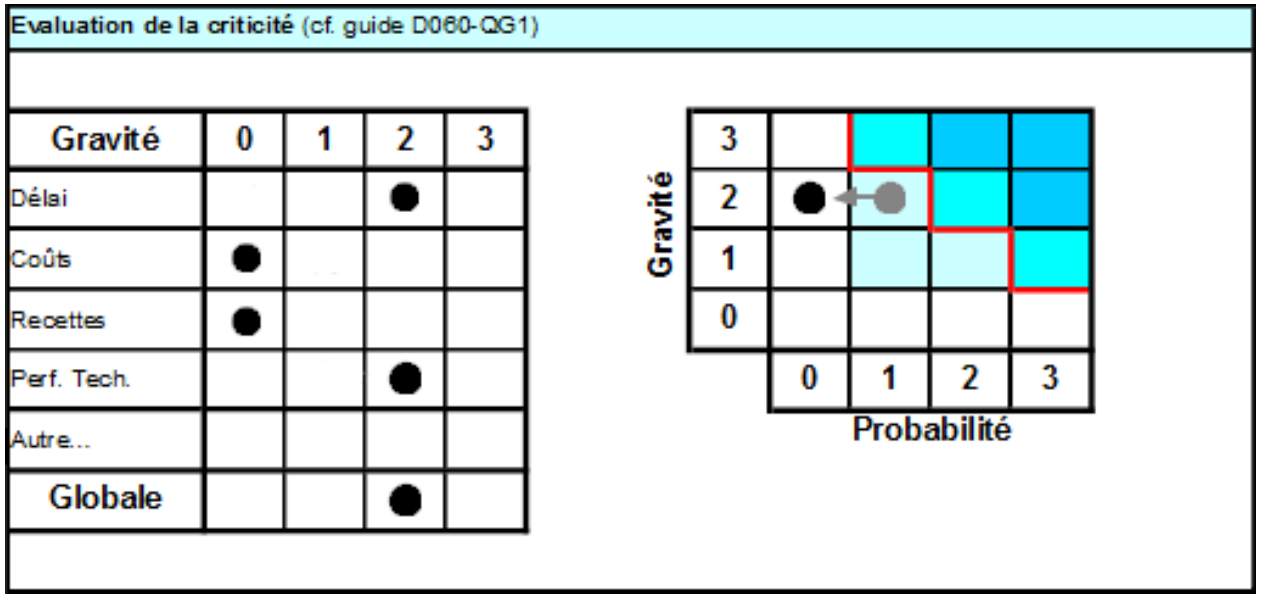
Risk evolution

- Risque de rendu



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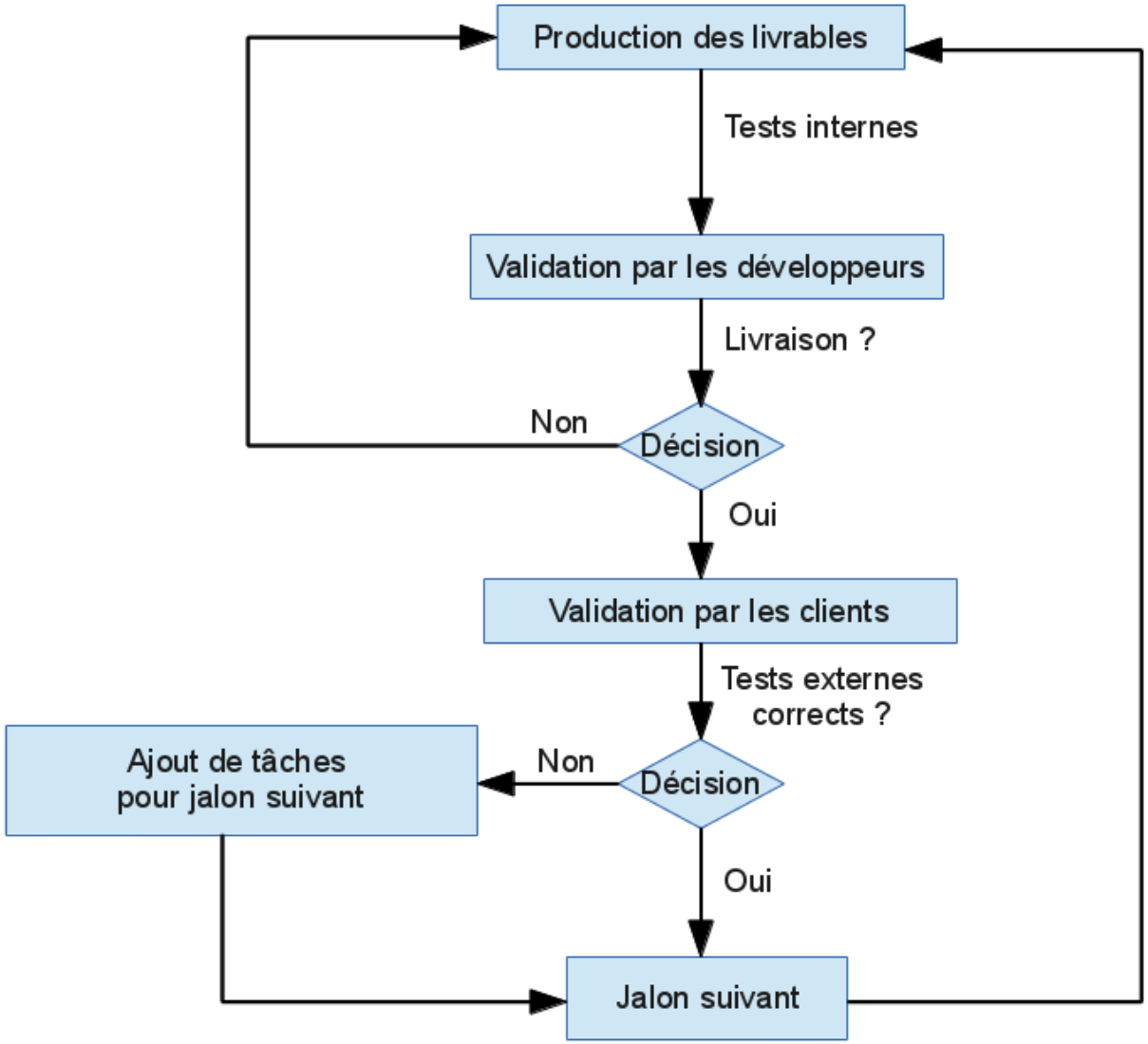
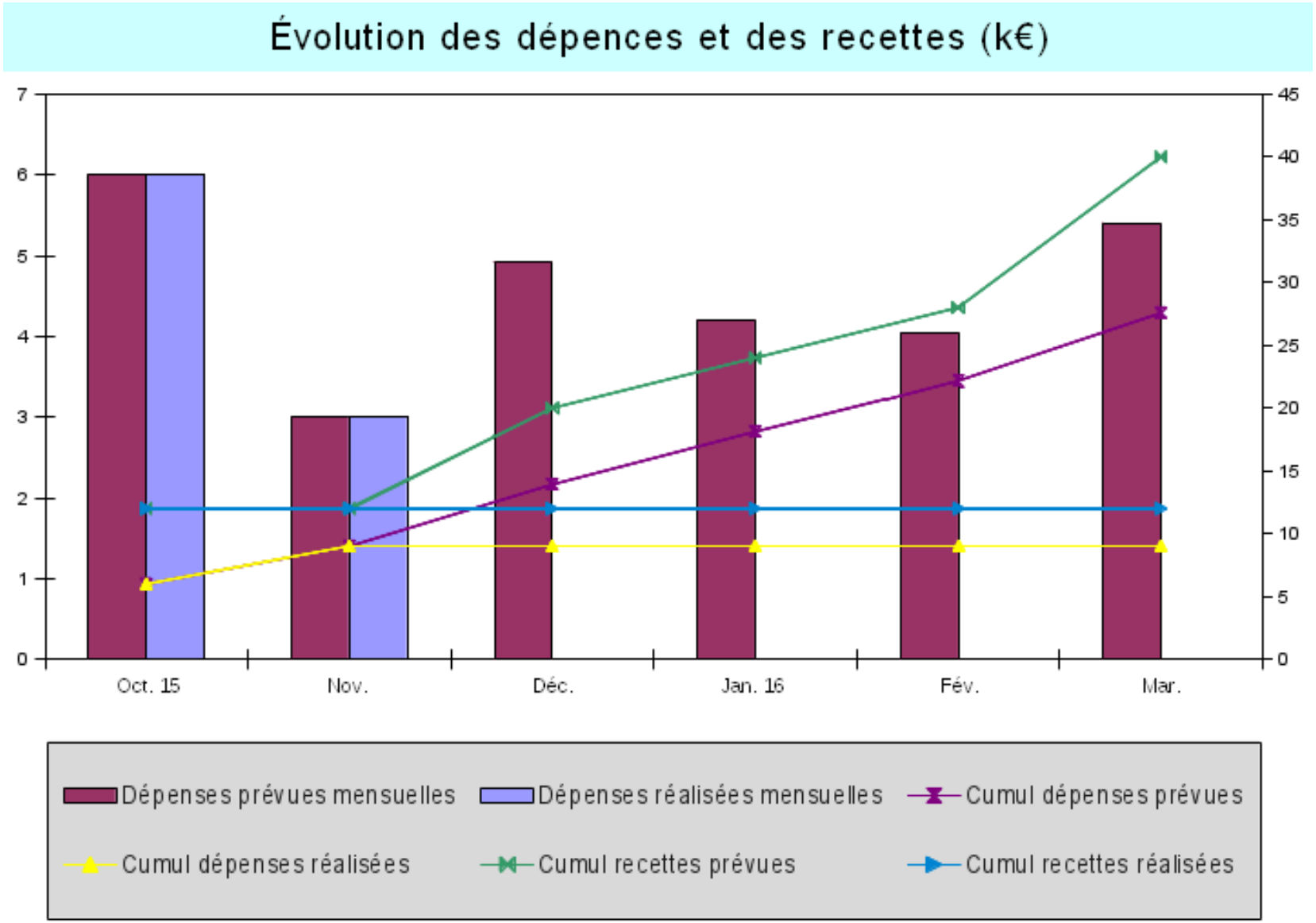
Quality insurance plan



Validation par les clients à chaque jalon.

Costs


Évolution des dépences et des recettes (k€)
7
6
5
4
3
2
1
0
45
40
35
30
25
20
15
10
5
0
Oct. 15
Nov.
Déc.
Jan. 16
Fév.
Mar.
Dépenses prévues mensuelles
Dépenses réalisées mensuelles
Cumul dépenses prévues
Cumul dépenses réalisées
Cumul recettes prévues
Cumul recettes réalisées

Outline

Conclusion

Discrete 3D surfaces of revolution

Final presentation

Thanks for your attention.

Are there any questions ?