LEAN ART

PLANORA

La décision industrielle éclairée

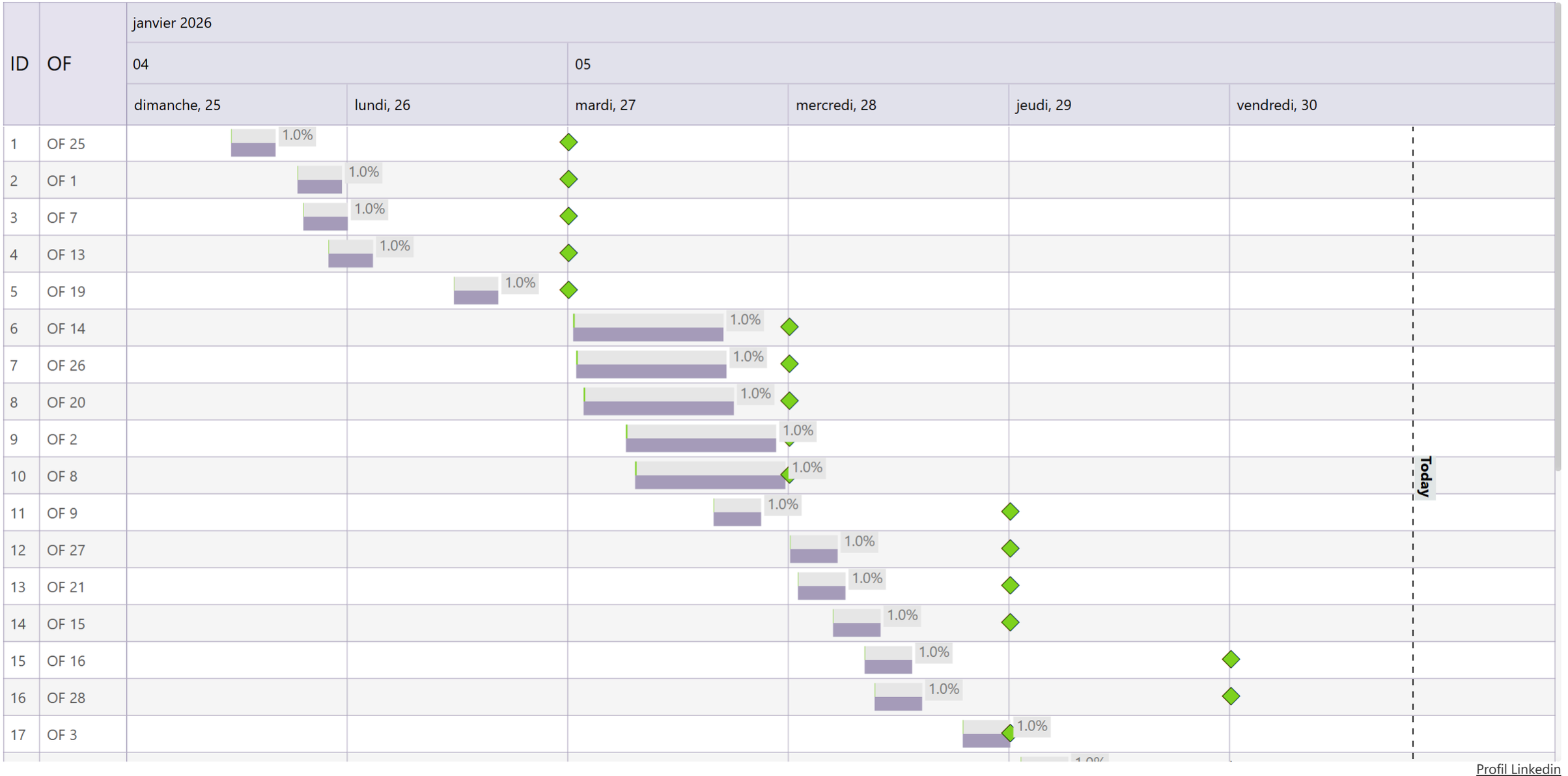
Moteur d’optimisation

Recherche automatique du meilleur planning de production

Identification automatique du meilleur compromis performance / contraintes.

PLANNING OPTIMISÉ

Résultat de l'algorithme d'optimisation



Profil Linkedin

PLAN DIRECTEUR DE PRODUCTION SIMULÉE

Résultat de l'algorithme de simulation

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Chart Card Table **Gantt**

Pivot data | Storyboard | Off

Conditional formatting | web URLs | Sort | Trellis | Filter | Formula — **Data**

Data labels | Zoom Levels — **Display**

Milestone — **Milestone**

Analytics | Days off — **Story**

KPI | A — **Actions**

Default | due_date (le plus récent)

ID	OF	janvier 2026						
		04			05			
		same	dimanche, 25	lundi, 26	mardi, 27	mercredi, 28	jeudi, 29	vendredi, 30
1	OF_01			OF_01				
2	OF_25			OF_25				
3	OF_19			OF_19				
4	OF_13			OF_13				
5	OF_07			OF_07				
6	OF_26				OF_26			
7	OF_14				OF_14			
8	OF_20				OF_20			
9	OF_08				OF_08			
10	OF_02				OF_02			
11	OF_09				OF_09			
12	OF_03				OF_03			
13	OF_27				OF_27			

Today

KPI

L'algorithme d'optimisation priorise le respect des délais clients et la durée globale du planning de production

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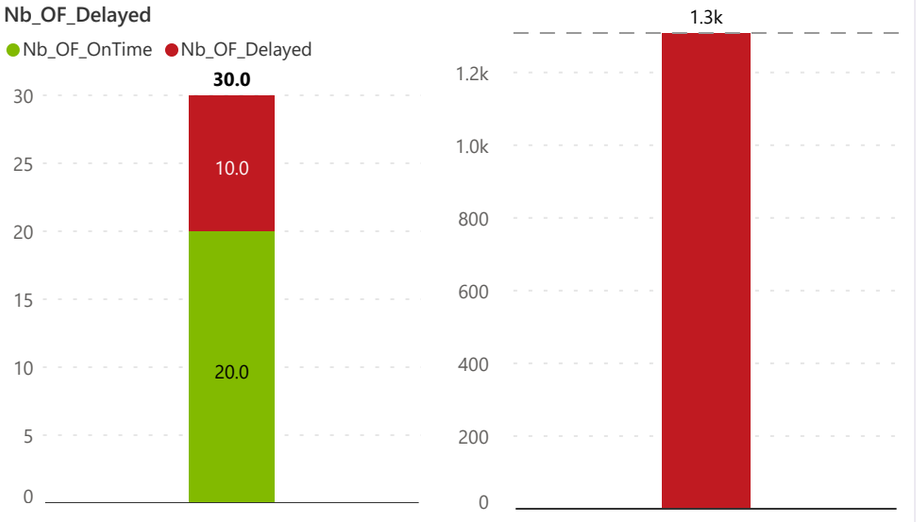
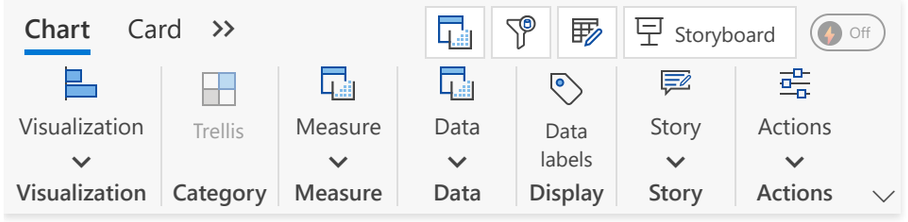
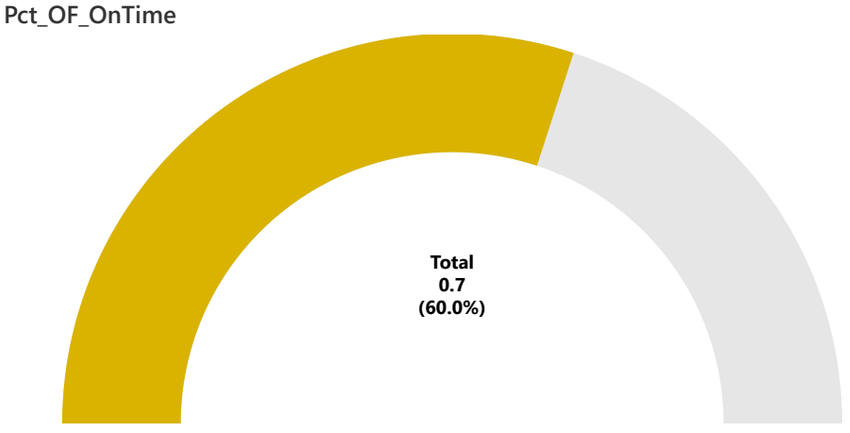
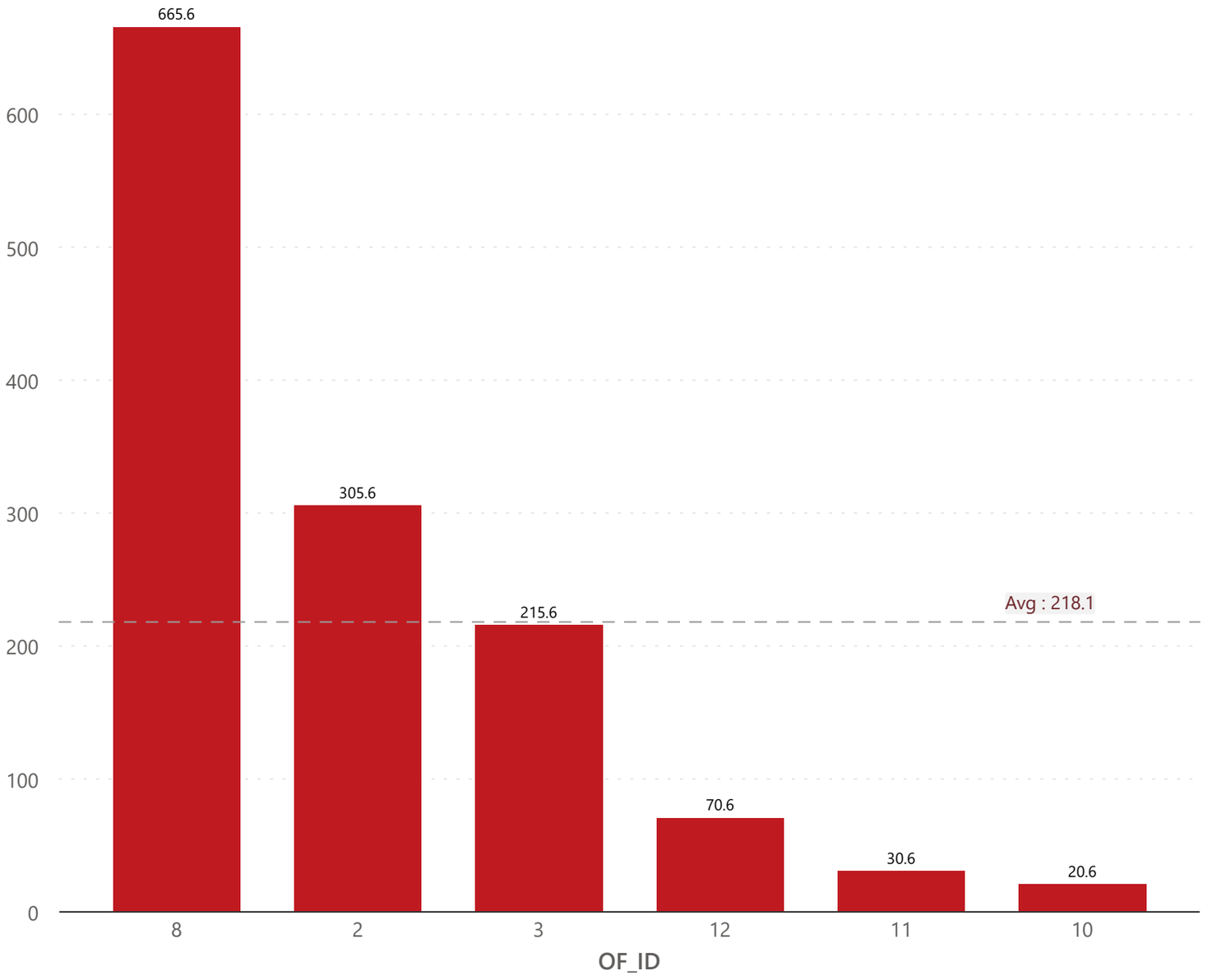








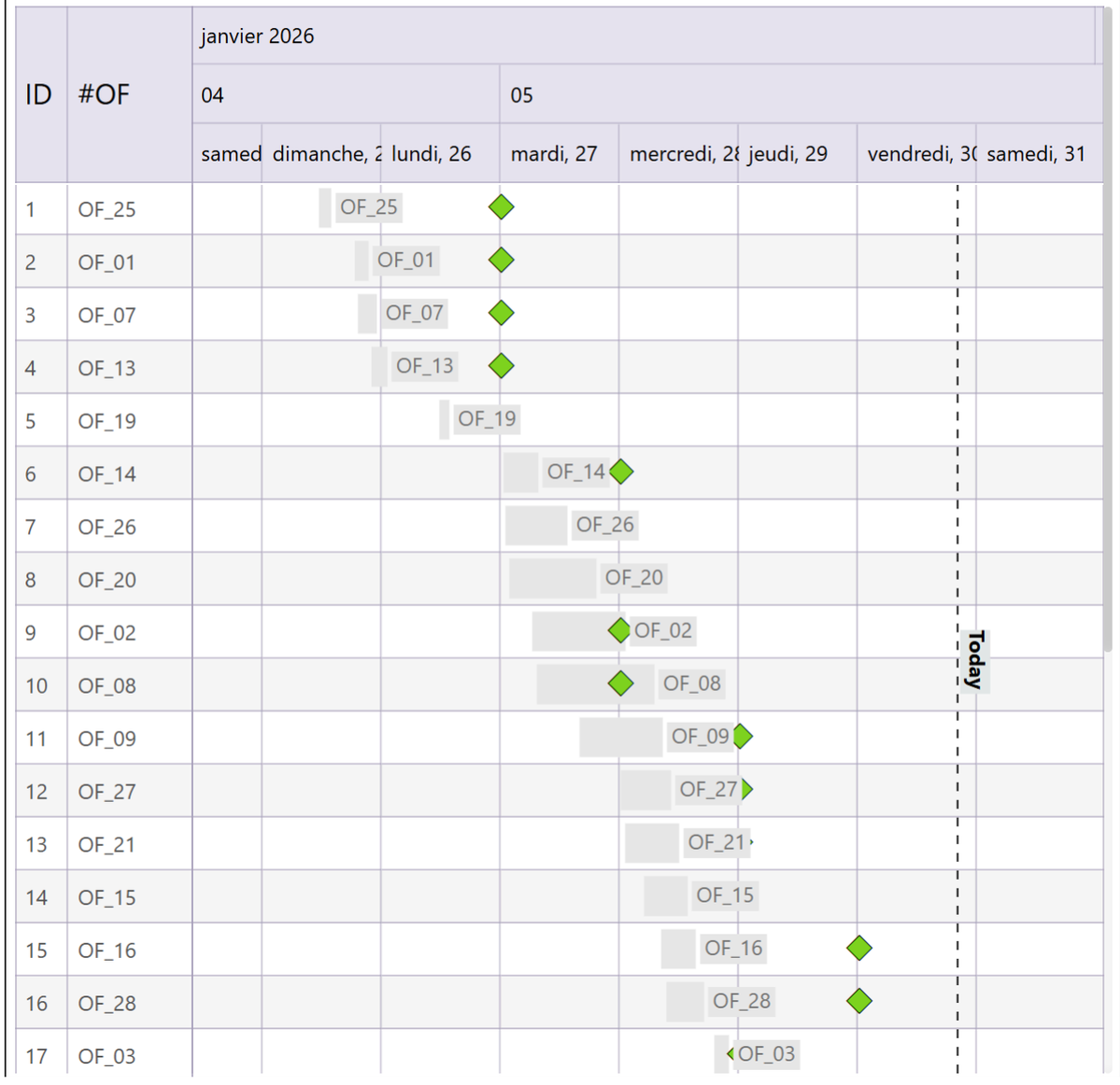
ORDONNANCEMENT OPTIMISÉ PAR MACHINE

Planification prévisionnelle issue du jumeau numérique

LEAN ART

Machine01

ID	#OF
1	OF_25
2	OF_01
3	OF_07
4	OF_13
5	OF_19
6	OF_14
7	OF_26
8	OF_20
9	OF_02
10	OF_08
11	OF_09
12	OF_27
13	OF_21
14	OF_15
15	OF_16
16	OF_28
17	OF_03



Machine02

ID	#OF
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4	OF_13
5	OF_19
6	OF_14
7	OF_26
8	OF_20
9	OF_02
10	OF_08
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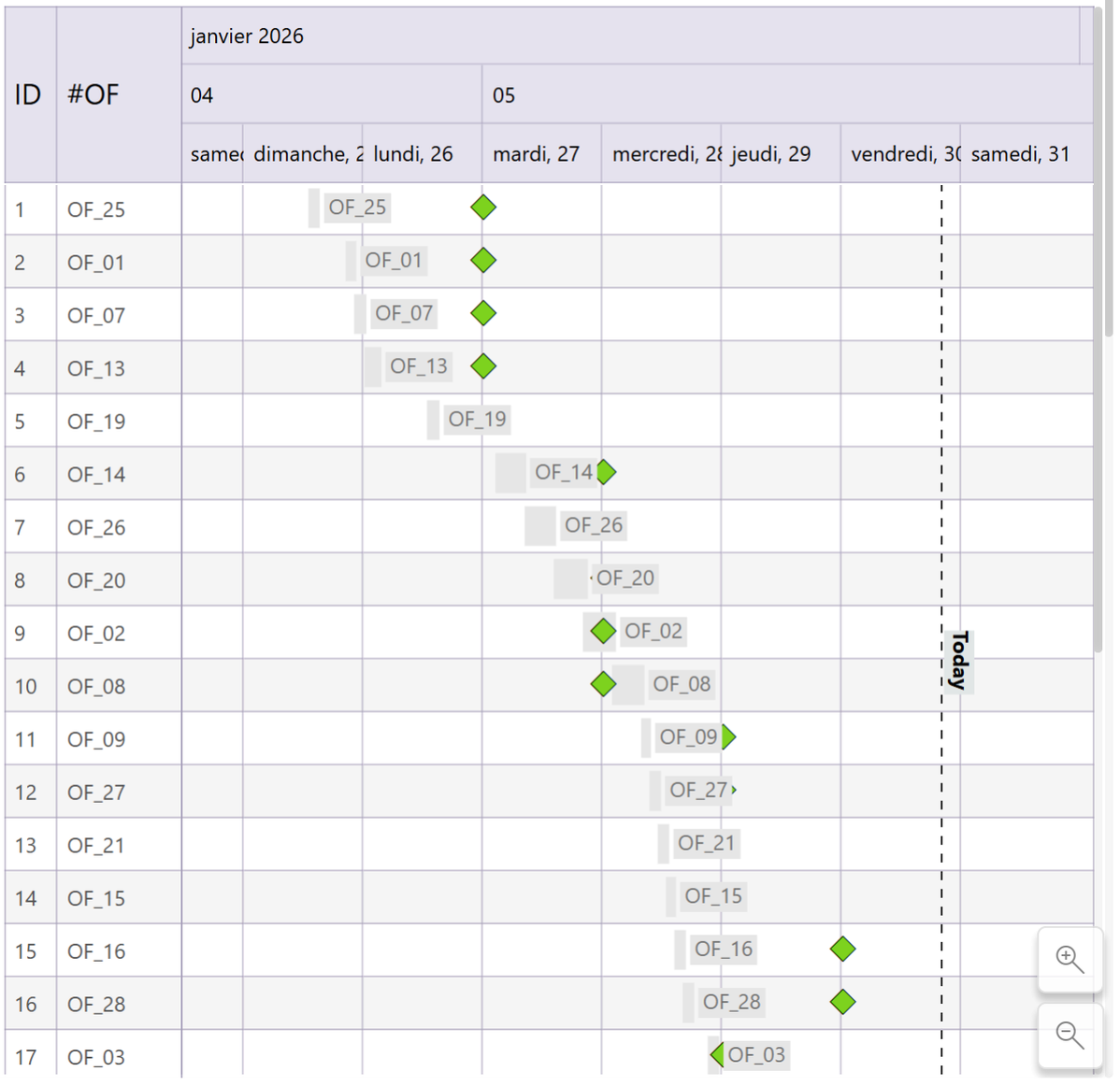
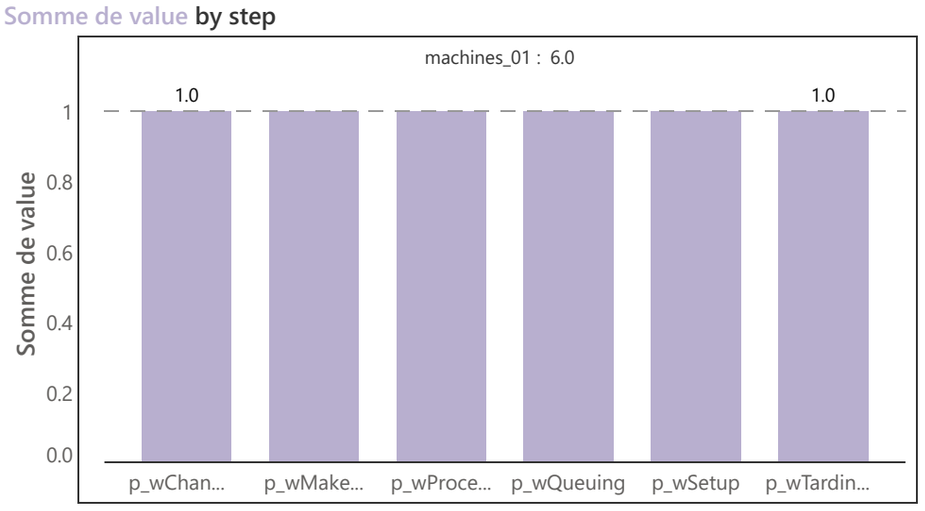
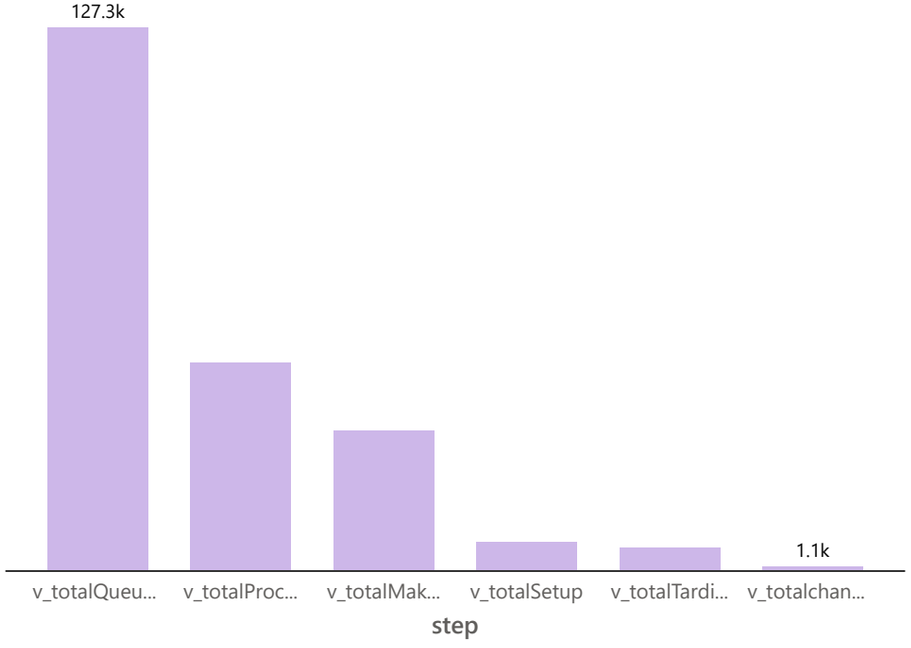
12	OF_27
13	OF_21
14	OF_15
15	OF_16
16	OF_28
17	OF_03

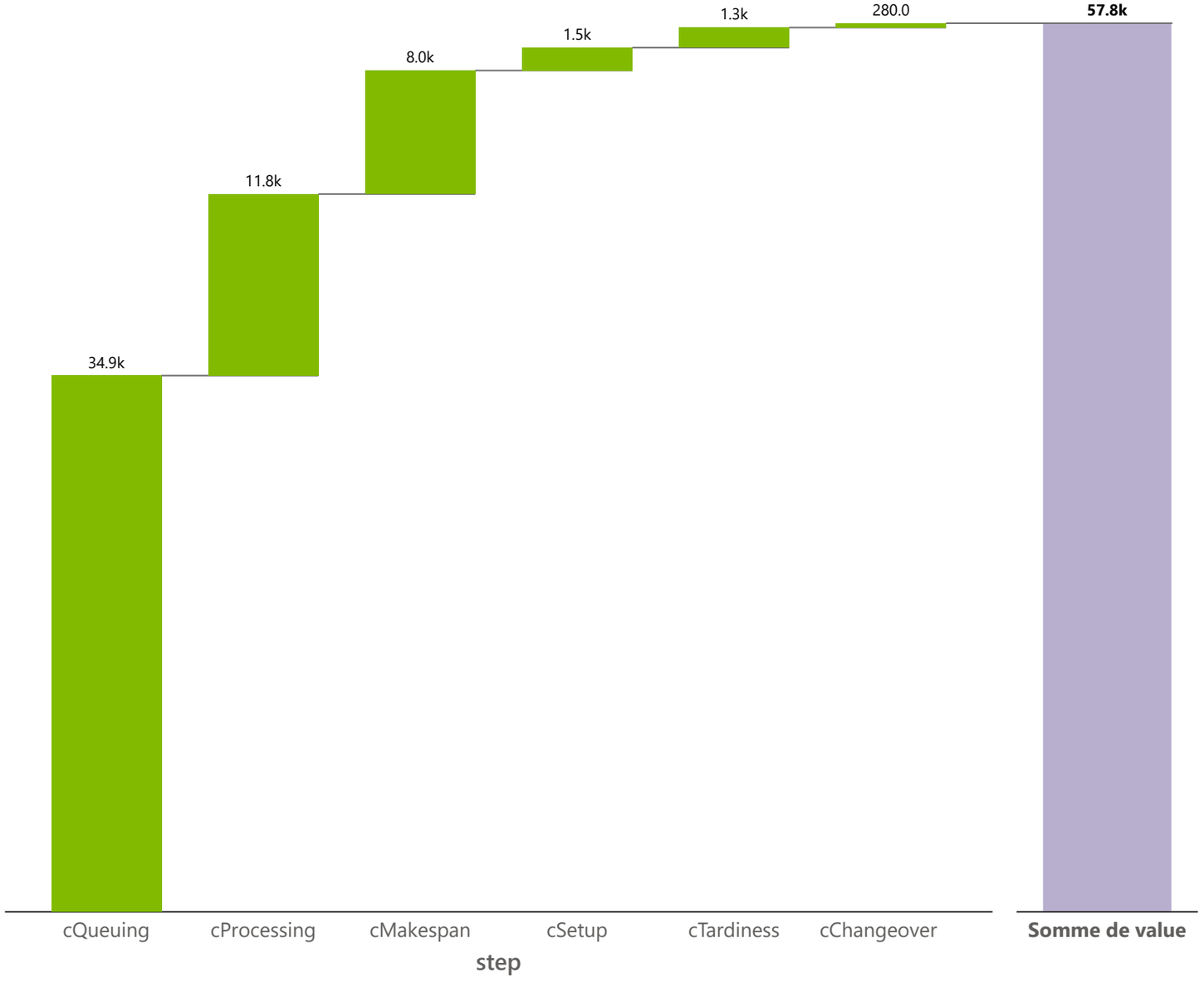


LEVIERS DE PERFORMANCE DU PLANNING OPTIMISÉ

L'algorithme d'optimisation priorise le respect des délais clients et la durée globale du planning de production







Moteur Multi scénarios

Comparaison de scénarios pour éclairer la décision

SCORE DE PERFORMANCE PAR SCENARIO

Fitness en minutes cumulées

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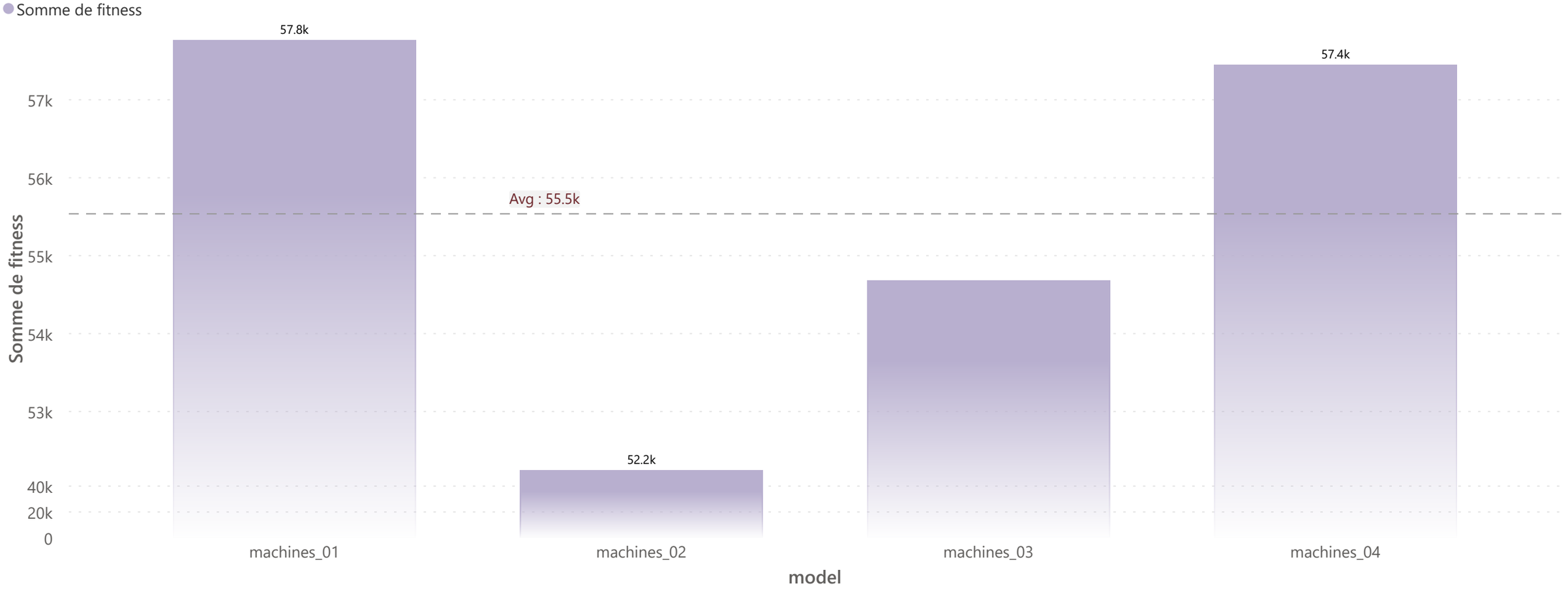
Chart Card Table Gantt | Pivot data | Storyboard | Off

Chart Type | Rotate | Trellis | Series | Split | Conditional formatting | Sort | Top n | Filter | Aggregation | Formula | Data labels | Analytics | Deviation | Annotation | KPI

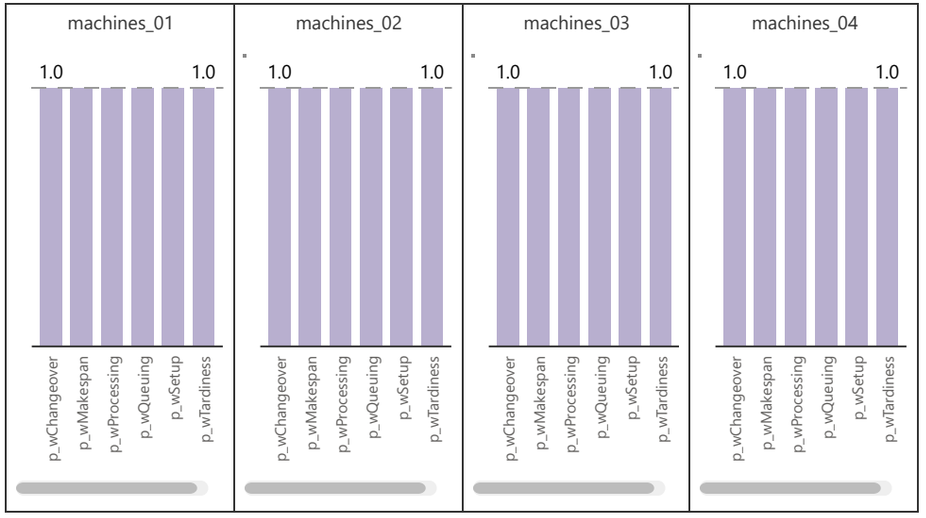
Visualization | Category | Measure | Data | Display | Story | Actions

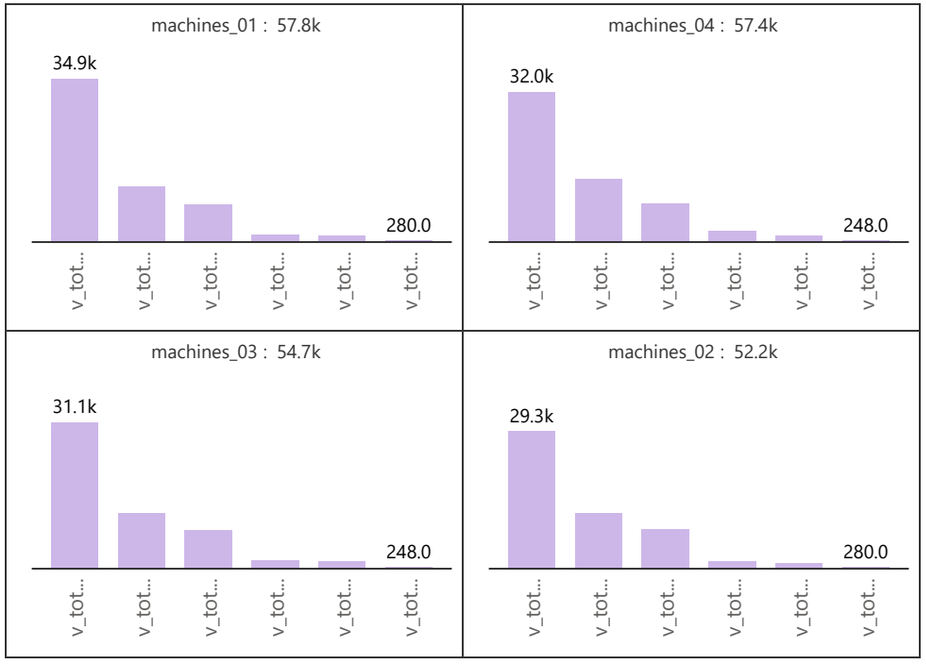
Somme de fitness by model

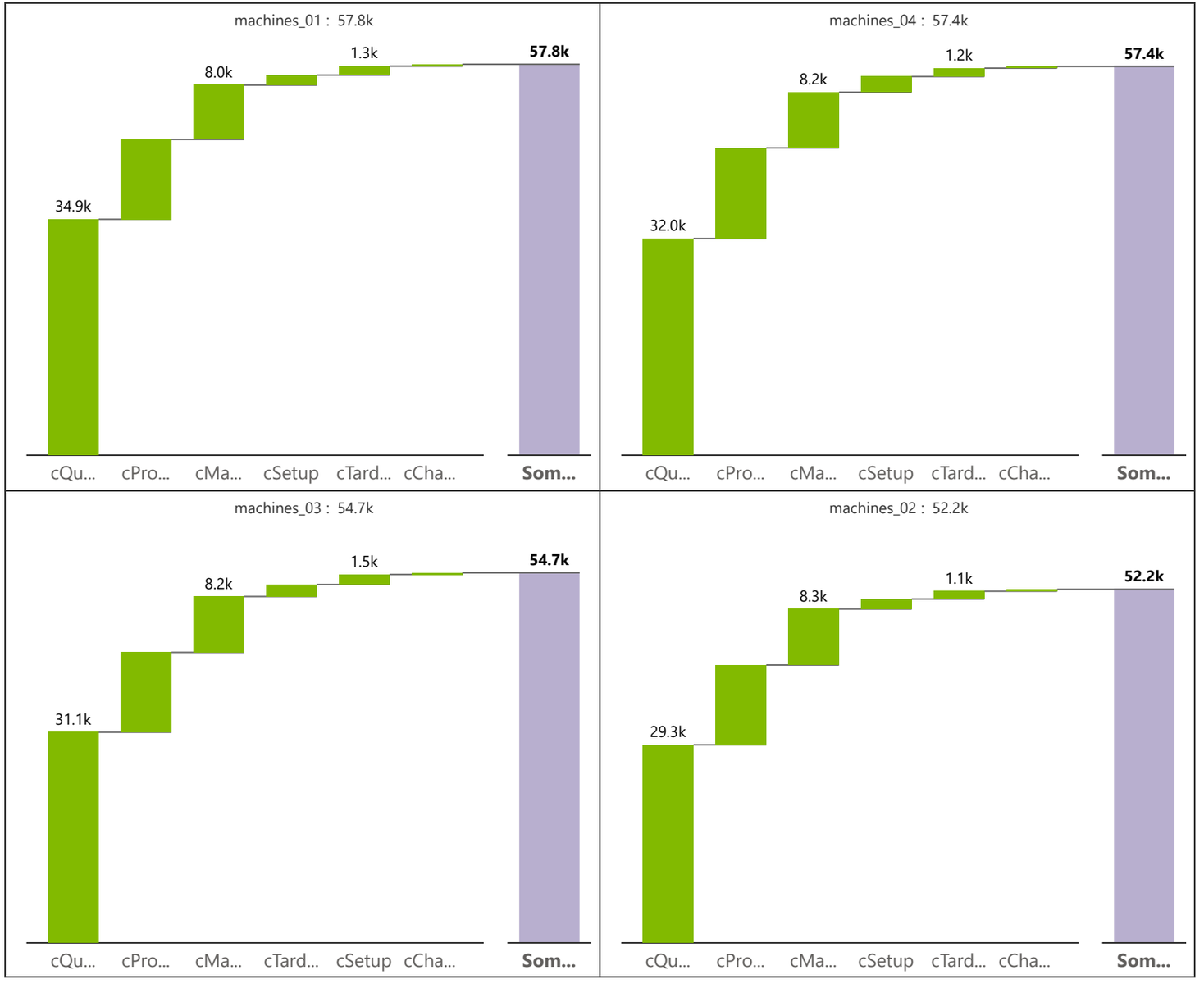


LEVIERS DE PERFORMANCE DU PLANNING OPTIMISÉ

L'algorithme d'optimisation priorise le respect des délais clients et la durée globale du planning de production







OÙ PASSE LE TEMPS PRODUCTION ?

Part des temps de file, réglage, changement de série et process par OF (100% = durée totale OF)

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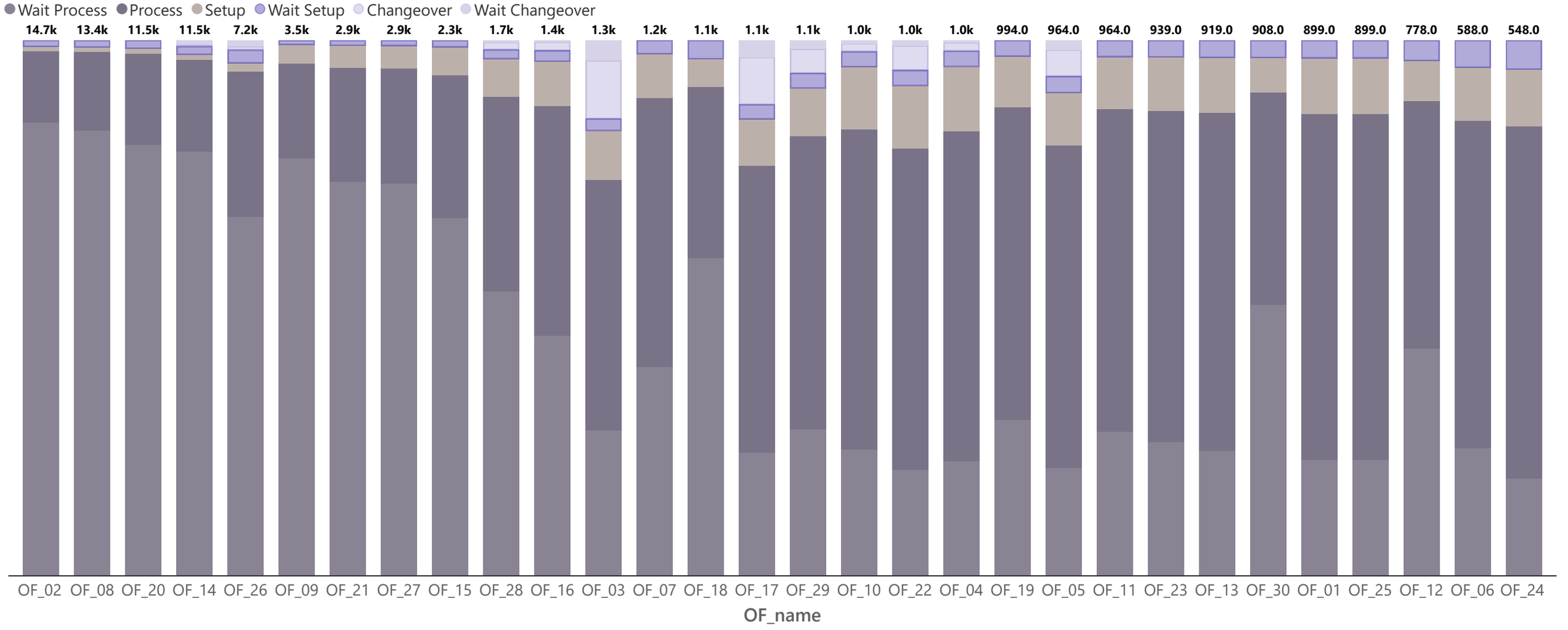
Chart Card Table Gantt

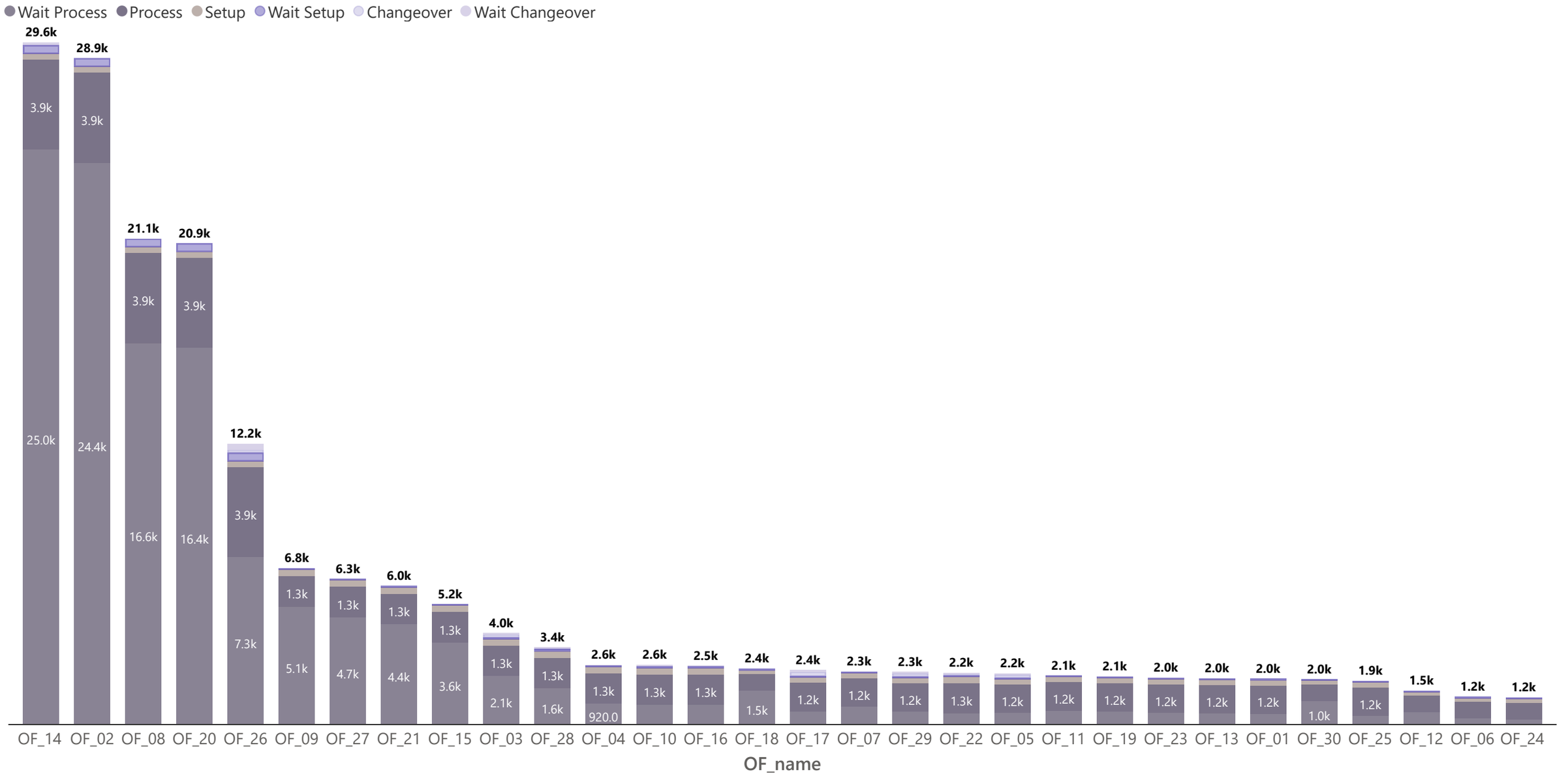
Pivot data Storyboard Off

Chart Type Rotate — Visualization
Trellis — Category
Series Split — Measure
Conditional formatting Sort Top n Filter Aggregation Formula — Data
Data labels — Display
Analytics Deviation Annotation — Story
KPI A — Actions



OÙ PASSE LE TEMPS PRODUCTION ?

File d'attente, temps process, réglages et changements de série (en minutes)

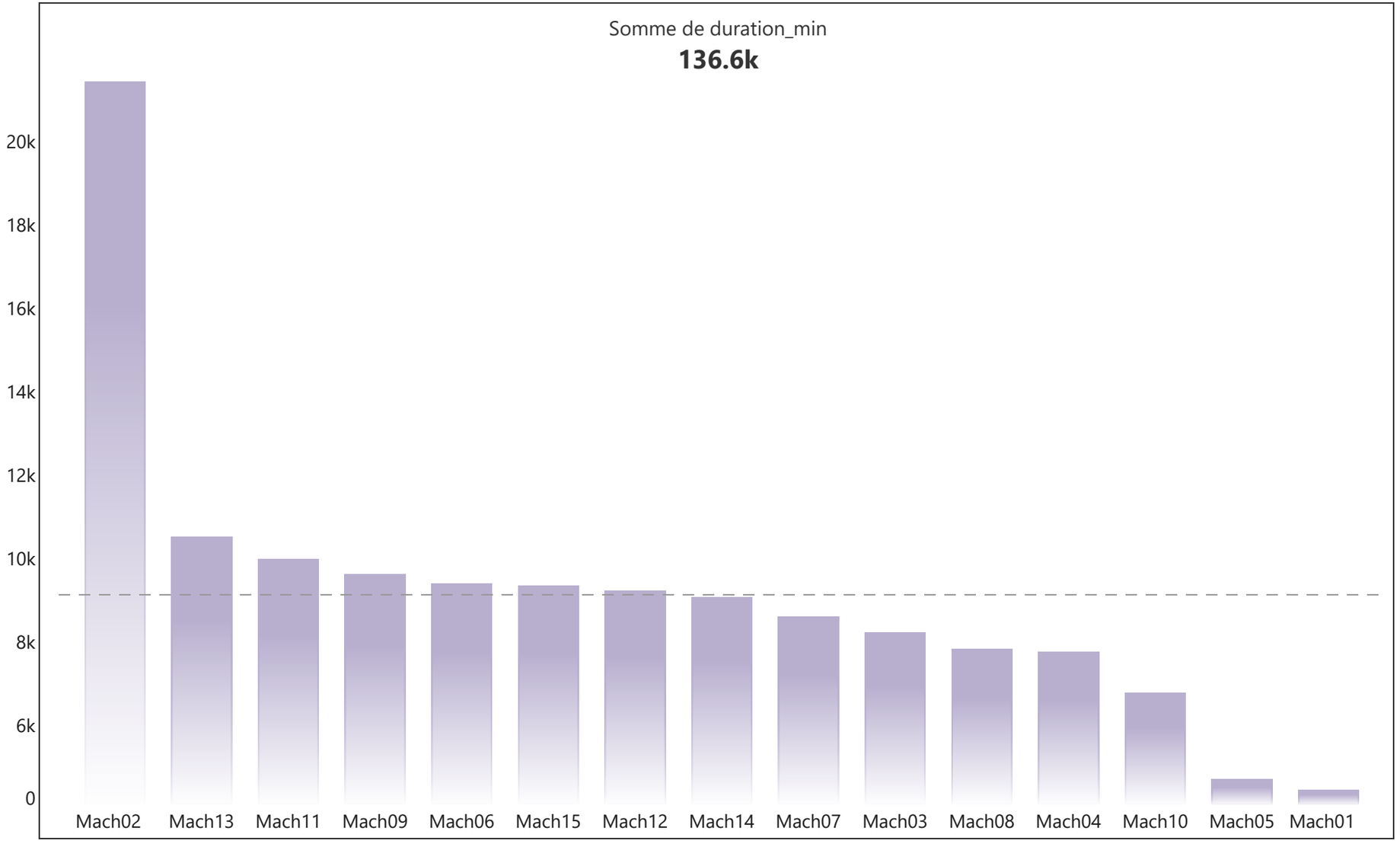


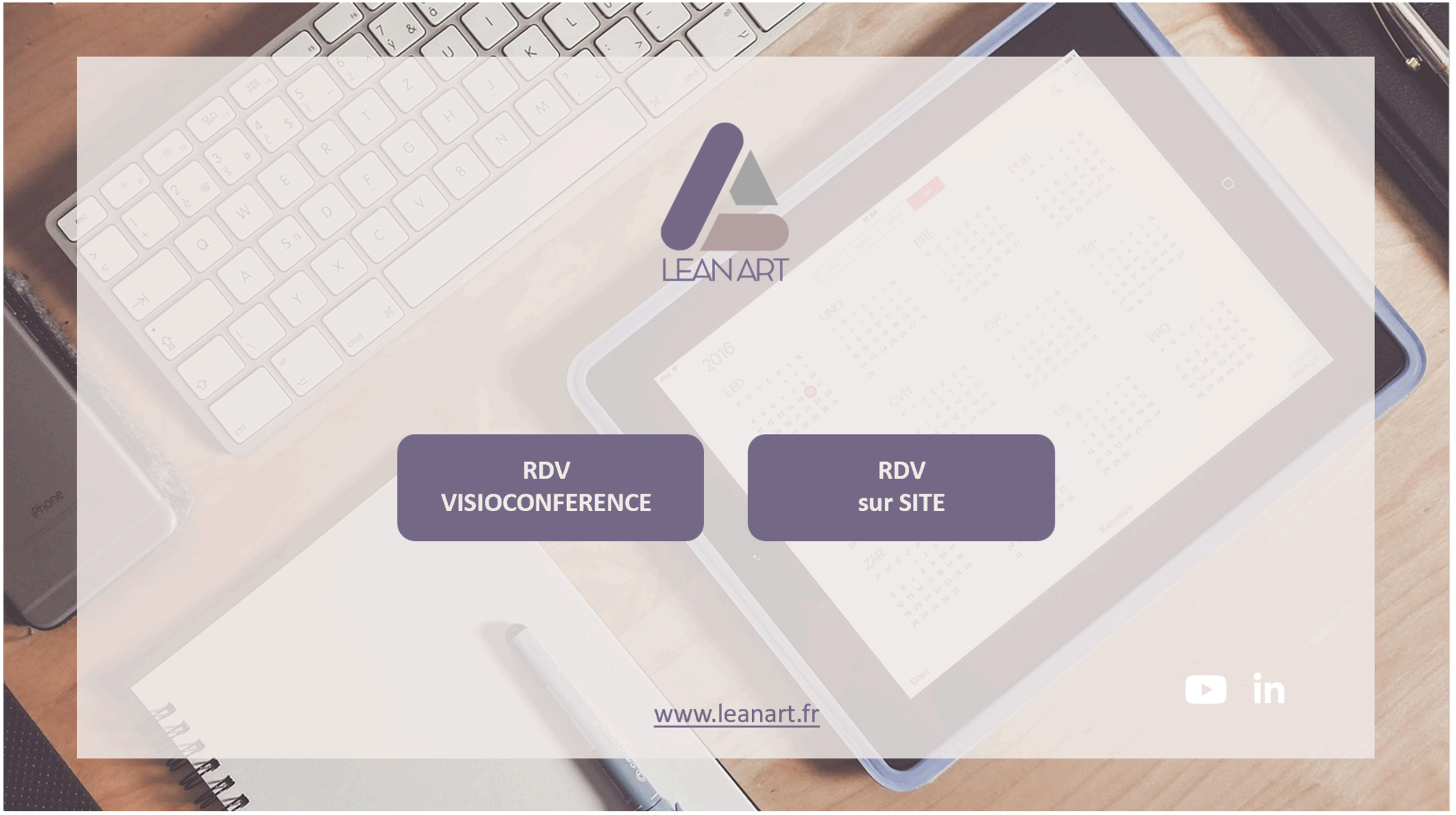
BREAKDOWNS

Theorical slots

machine	source	Somme de duration_n
Machine02	MTBF_REAL	21 420
Machine13	MTBF_REAL	10 500
Machine11	MTBF_REAL	9 960
Machine09	MTBF_REAL	9 600
Machine06	MTBF_REAL	9 375
Machine15	MTBF_REAL	9 315
Machine12	MTBF_REAL	9 200
Machine14	MTBF_REAL	9 045
Machine07	MTBF_REAL	8 580
Machine03	MTBF_REAL	8 190
Machine08	MTBF_REAL	7 800
Machine04	MTBF_REAL	7 725
Machine10	MTBF_REAL	6 750
Machine05	MTBF_REAL	4 680
Machine01	MTBF_REAL	4 425
Total		**136 565**

Somme de duration_min by machine

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