



CASD



VTL CASD TREVAS DESKTOP

CASD VTL Studio

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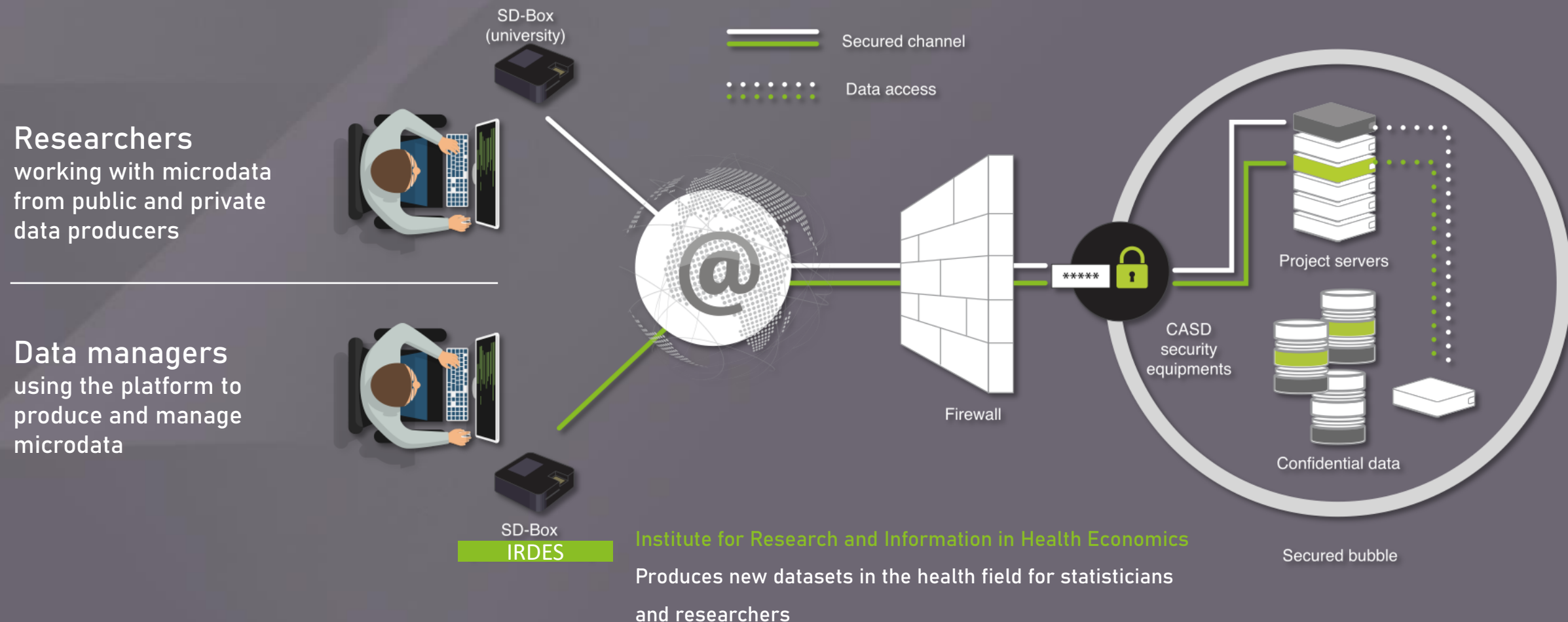
Nicolas Laval,

Lead Tech at Making Sense

1st OCTOBER 2025 — SDXM Global Conference

CASD — Securing Access to Confidential Data

The CASD (Secure Data Access Center) provides secure IT environments for processing confidential data for:

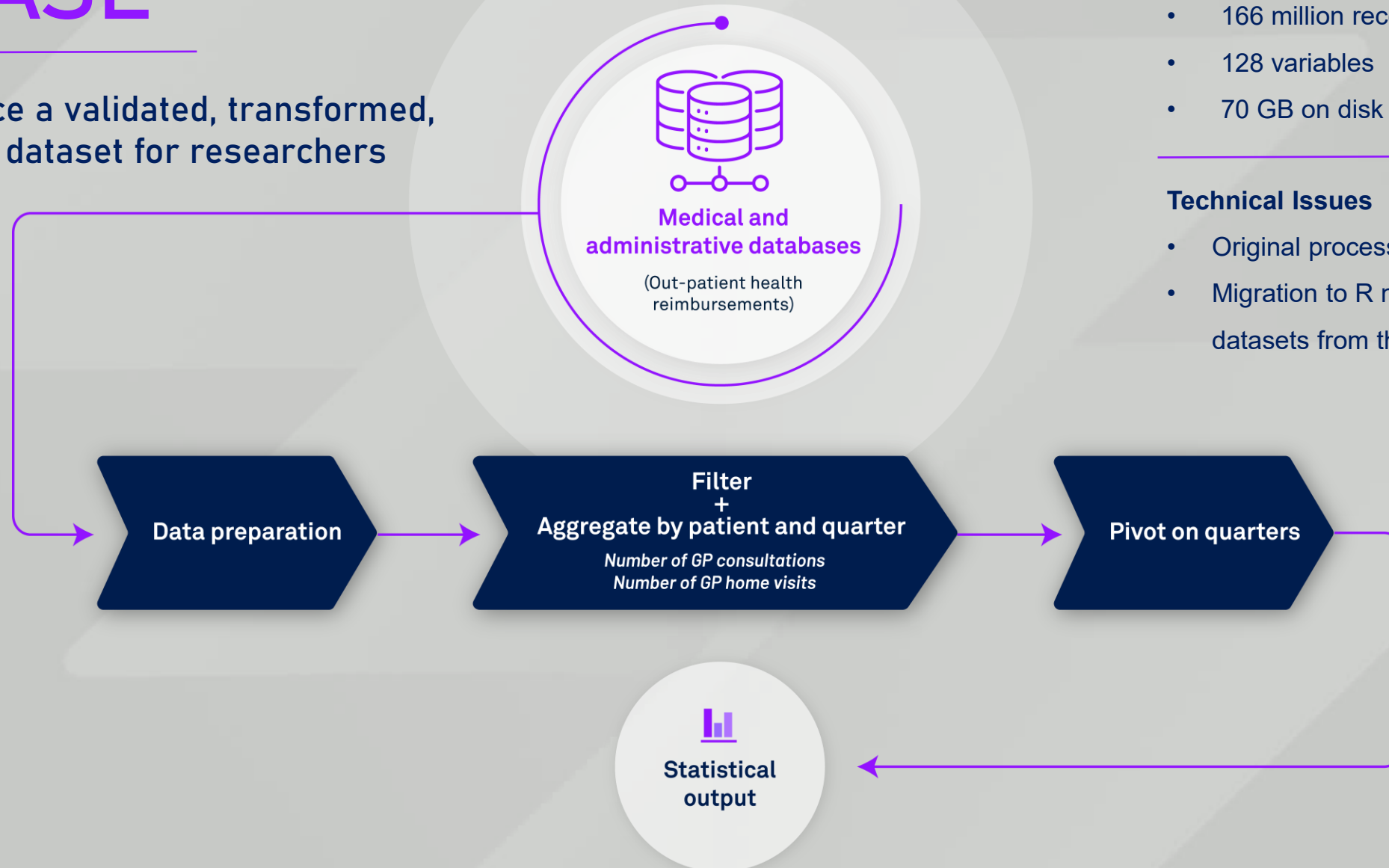


IRDES USE CASE

Objective: produce a validated, transformed, and documented dataset for researchers

IRDES DATAMART BUSINESS SAMPLE

National Health Data System



Health Services dataset

- 166 million records (healthcare services)
- 128 variables
- 70 GB on disk

Technical Issues

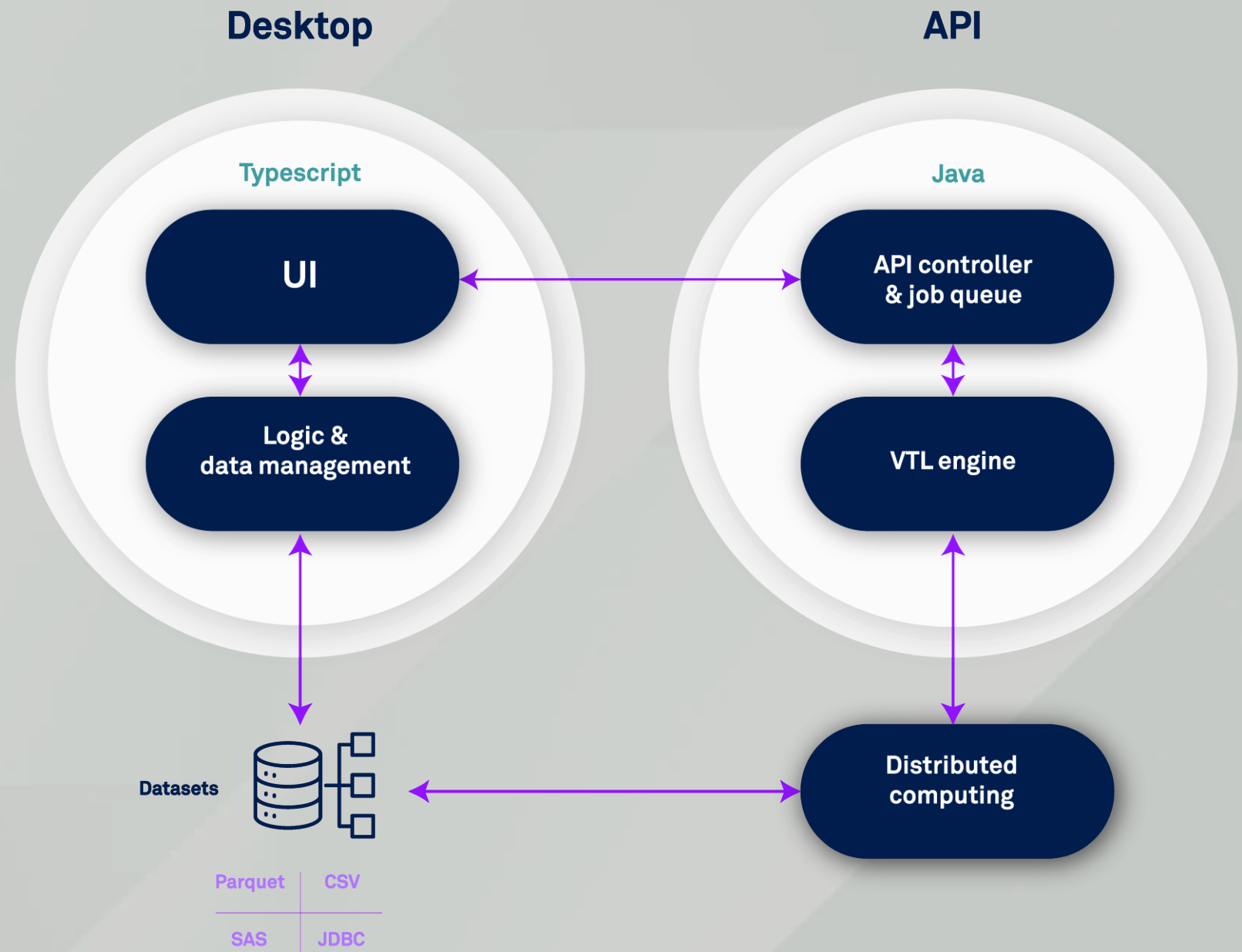
- Original processing in SAS
- Migration to R not easily suitable for large datasets from the user perspective

USER EXPECTATIONS AT CASD

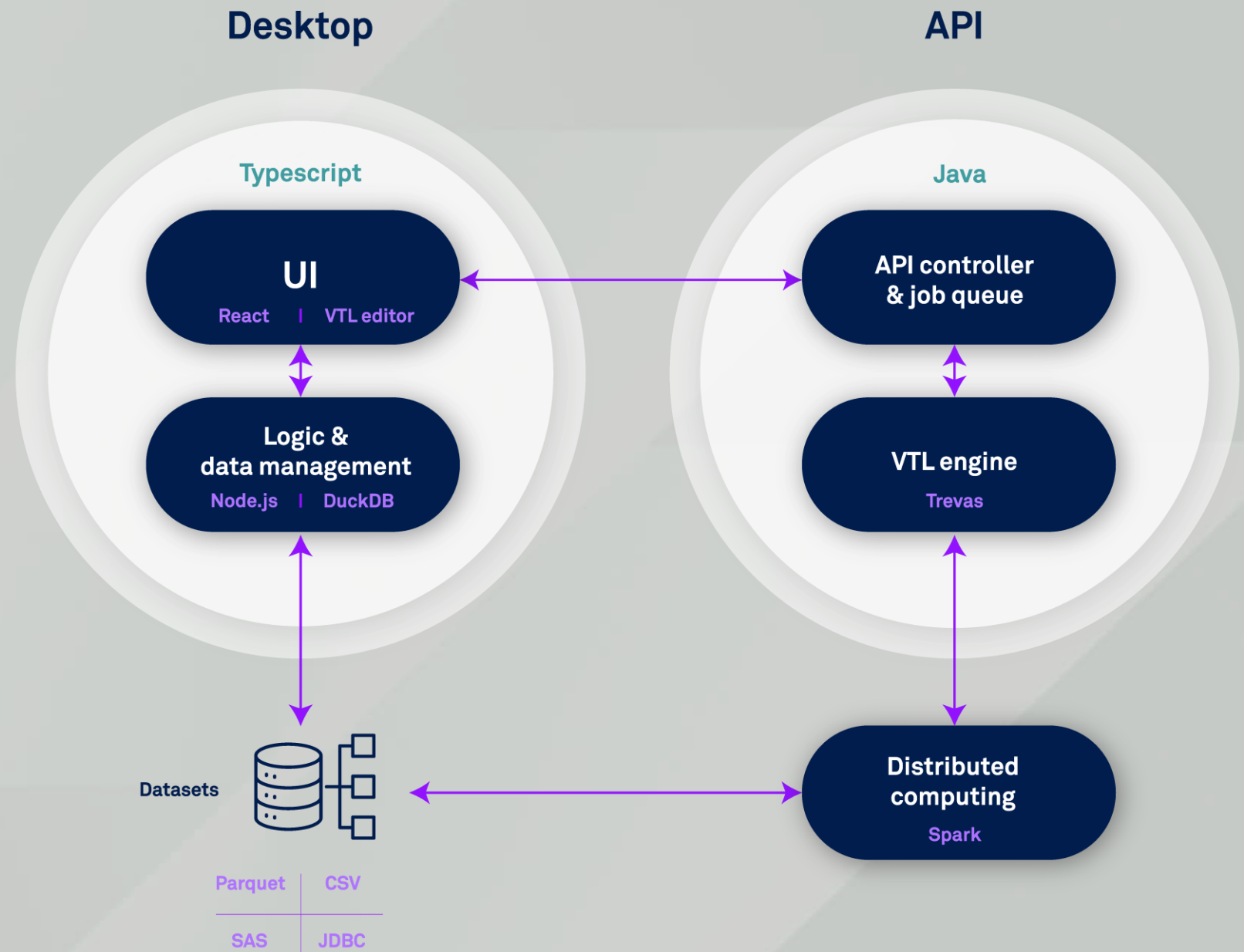
- Ergonomics:
 - Browsing and exploring datasets
 - Using an enhanced editor
 - Managing data sources
 - Visualizing interactively the results of dataset's transformations and validations
 - Performance: Ability to handle efficiently large-scale data
 - Additional benefit: Reusability and documentation in standard format
-

How did we address those expectations?

CASD TREVAS DESKTOP ARCHITECTURE



CASD TREVAS DESKTOP ARCHITECTURE



DEMO



Créer un nouveau projet



Importer un projet existant

Projets épinglés

VTL 2.1

Test VTL 2.1 new features



BPE SDMX

INSEE permanent base of facilities SDMX use case



CONCLUSION

Ergonomics

+

Add

input

output

temp

VTL Script

```
1 // Index datamart business samp
2 .....
3 .....
4 .....
5 .....
6 .....
7 .....
8 .....
9 PRS_INIT := Input_ER_PRS_F [calc identifier BEN_NIR_PSA := BEN_
10 CPL_MAJ_TOP := if CPL_MAJ_TOP = "True"
11 if CPL_MAJ_TOP = "False" then 0
12 ];
13 BEN := input_IR_BEN_R[calc identifier BEN_NIR_PSA := BEN_NIR_PSA
14 MAX_TRT_DTD := cast(MAX_TRT_DTD, date, "
15 ];
16 // Calculate NEM_END_AND and CLE_PRESTA identifiers in PRS
.....
Line 1 - Column 1
```

input_IR_BEN_R.csv

BEN_RNG_GEN	BEN_NIR_PSA	BEN_IDT_ANO	BEN_NIR_ANO
gOQUPjyLBI...	ceuhadrXulg...	MZnBbyphda...	
KuRbyGKkDaw...	khufbnPhqPh...	FMVZFOnkTio...	
viCqjHOMQD...	nUTQkuLOHO...	CdERPhLUFR...	
uAGuoCAWSp...	uMAGQGVPGK...	uwwPuDnpnmH...	
FZKugGkSuple...	ToxEdZGuAbh...	BoudeyTmjqm...	
NKIDOhuLuo...	uYmACG6kU...	uITfMDQluR...	
WfWwYruuJQPK...	dBRuKuXSCDu...	CuYHCuWyp...	

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input_ER_PRS_F.csv

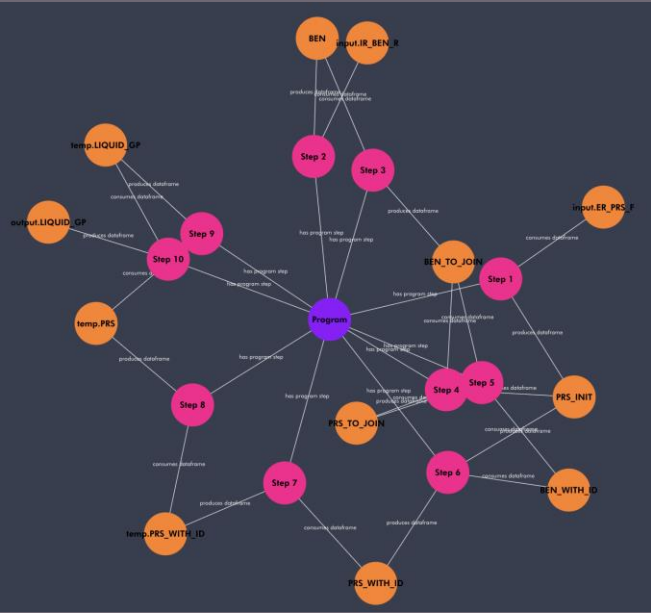
BEN_NIR_PSA	BEN_RNG_GEN	ETR_PSE_PBN	FLX_EMT_TYP	FLX_DIS_DTD	FLX_TRT_DTD	PRS_MTT_NUM	FLX_EMT_NUM	ORG_CLE_NUM	FLX_EMT_ORG
uAGuoCAWSp...	1	92000089	14	26/04/1986	26/10/1979	lruuLdMu...	1	01C682481	163
FZKugGkSuple...	0	97011172	14	06/04/1995	22/03/2007	uYmAGUJS...	1	99C593059	353
FZKugGkSuple...	0	33000014	91	08/12/1993	18/04/1994	uJCICuQZ...	22	01C351433	5550
FZKugGkSuple...	0	50001674	99	09/12/1975	02/02/2018	PhuMOnel...	21	01M031506	5602
NKIDOhuLuo...	1	93000924	93	23/10/2010	17/02/2010	lruYluzoR...	8	01C789001	5162
NKIDOhuLuo...	1	68000823	93	30/03/2001	17/10/1989	PhuVJRUu...	1	01C342235	320
NKIDOhuLuo...	1	60000286	7	20/02/2011	06/05/2005	FluayW9...	1	01C801294	3620

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Performance



Documentation in standard format



VTL

CONCLUSION

- Strong collaboration between Making Sense and CASD
- New features are continuously added
- Open to partnerships & collaborations

Come visit us at our stand!



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