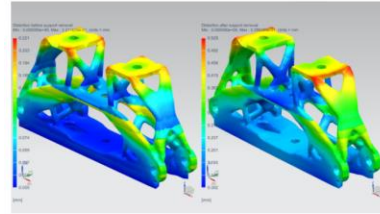
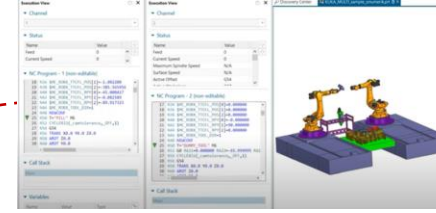


Digital Thread

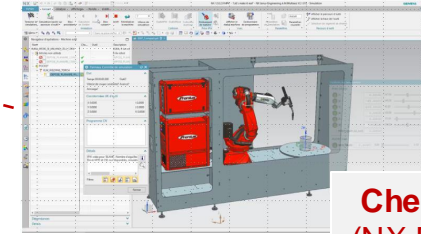
- different locations of data value chain : software and NC -



Design and modelisation

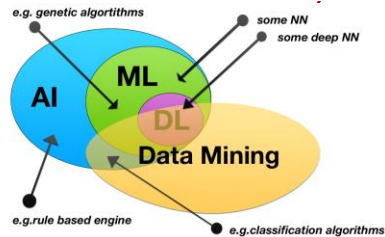


Programation and simulation



Check before to launch (NX Digital Twin)

Discover new parameters / rules impacting the process (via Big Data, AI ...)

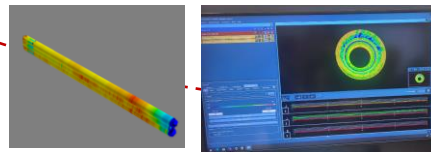


NDT control in Process
Multichannel / multi functions

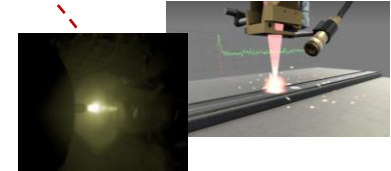


GEMINI™ STANDARD

Qualify (Edge computing solutions)



Adapt PP in some point of to the trajectory (via dynamic operators)



Control Process Parameters, PP (via sensors)



Regulate PP on the right values (via closed loop)

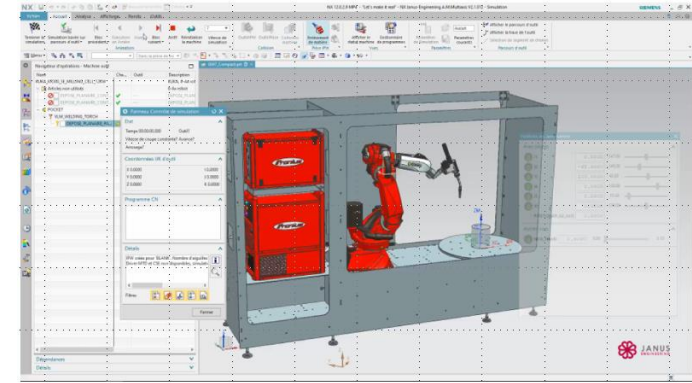
OUR CONCEPTUAL MODEL / A Connected System

```

239 N312X1121.882Y-564.374
240 N312Z-76.4
241 N314G1Z-79.9F100
242 N315X1116.044Y-565.244F764
243 N316Z1101.444Y-517.424F381
244 N317G3X1099.096Y-514.944Z-3.340J-1.022F302
245 N318G1X1099.096Y-514.940
246 N319X949.554Y-514.906F764
247 N320X926.118Y-514.944
248 N321X921.40Y-514.45
249 N322X918.11Y-519.506
250 N323X914.926Y-512.054
251 N324X912.098Y-510.158
252 N325X910.378Y-509.694
253 N326X907.942Y-504.022
254 N327X905.690Y-500.534
255 N328X904.378Y-499.512
256 N329X903.490Y-496.334
257 N330X903.184Y-493.078
258 N331X903.076Y-493.020F302
259 N332X903.04Y-488.486
260 N333Y-483.884
261 N334G2X900.066Y-450.424Z-3.530
262 N335G1X990.178Y-448.922
263 N336X979.976Y-447.374F764
264 N337X976.592Y-446.546
265 N338X973.360Y-445.222
266 N339X970.480Y-443.508
267 N340X967.884Y-441.394
268 N341X964.944Y-440.462
269 N342X964.84Y-437.908
270 N343X963.112Y-435.08
271 N344X961.75Y-431.938
272 N345X960.884Y-429.428
273 N346X960.54Y-428.592
274 N347Y-424.45
275 N349Y-263.588
276 N349X960.51Y-249.472
277 N350X960.460Y-239.9
278 N351X961.354Y-236.4
  
```



Cam:Post-Pro



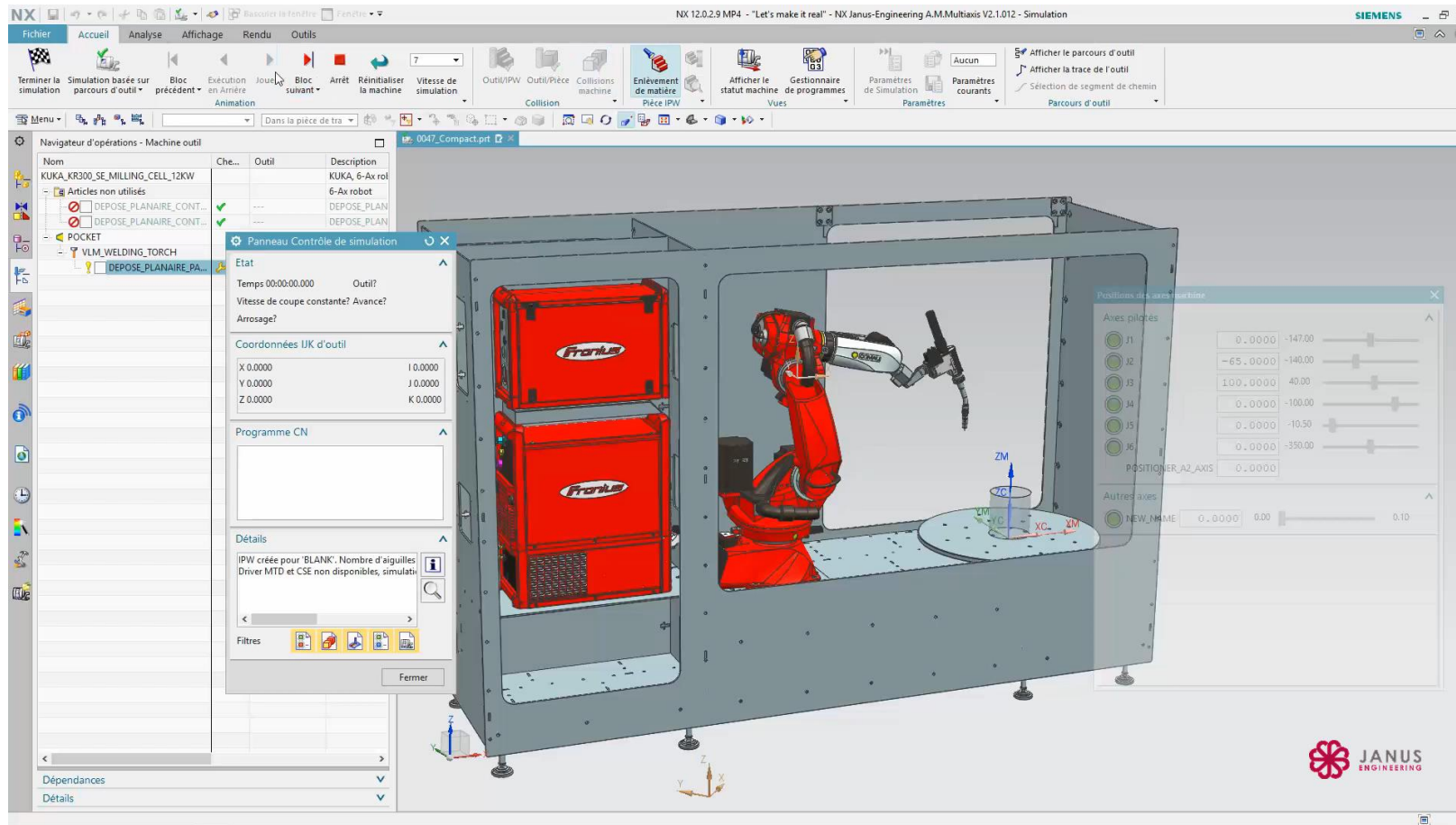
CAD: Digitalization & Modelization

Simulation & Scheduling

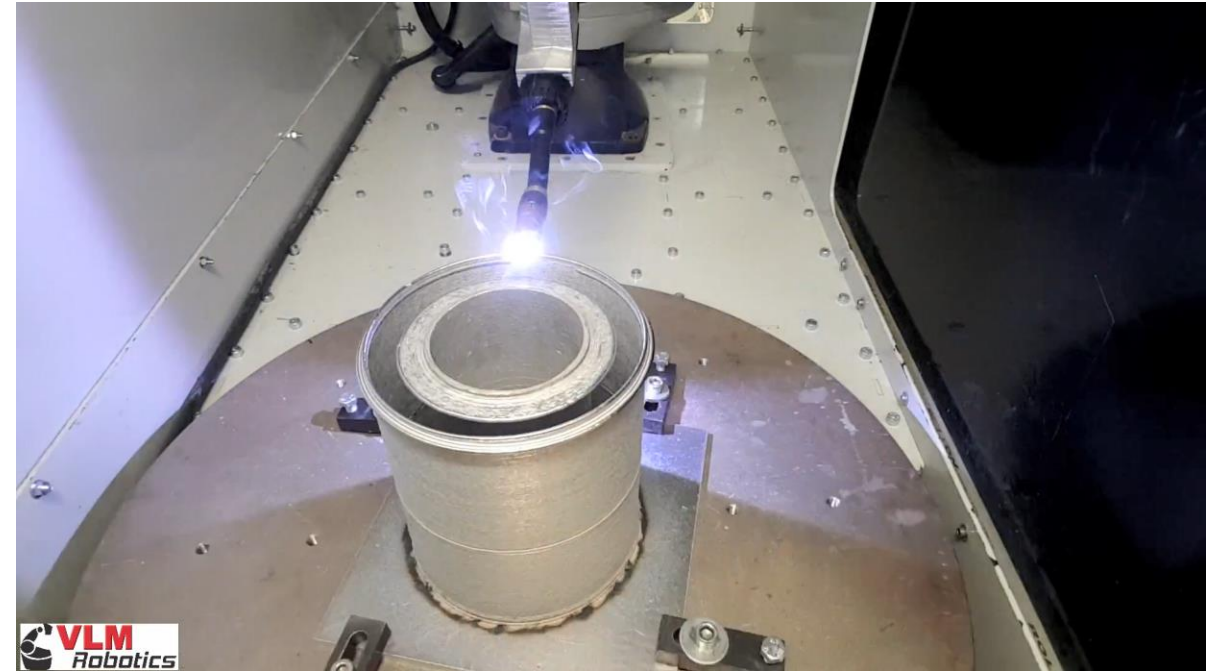
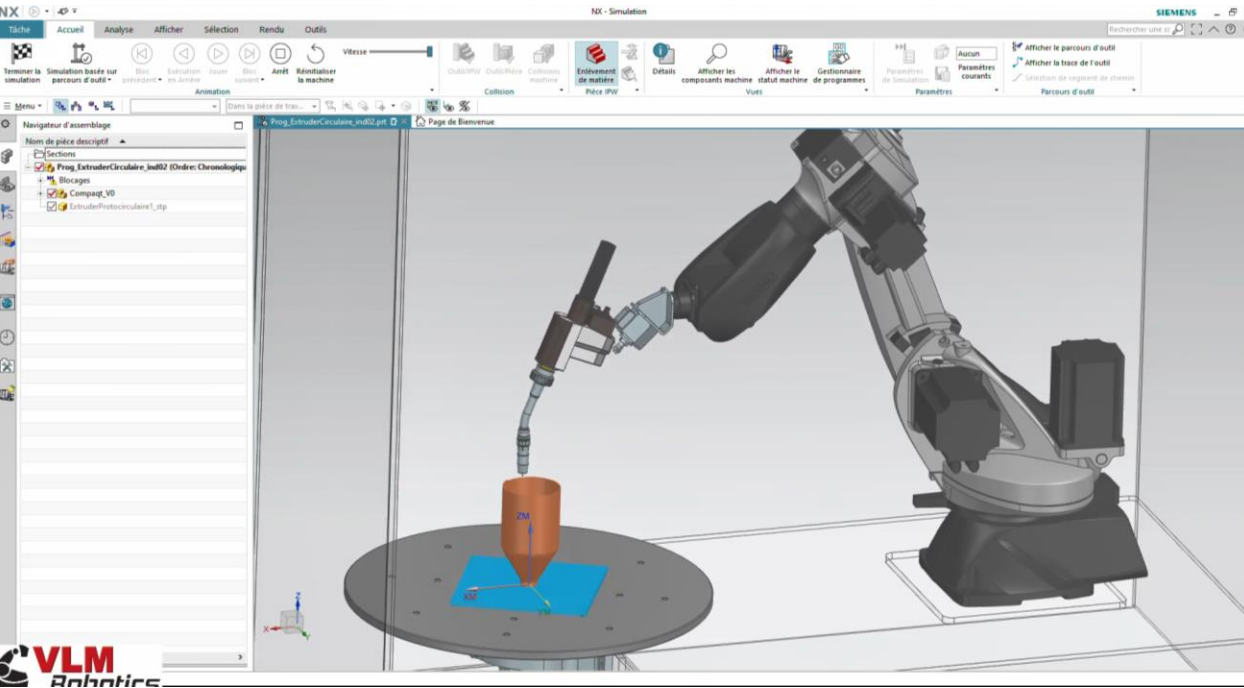


Manufacturing & control in process

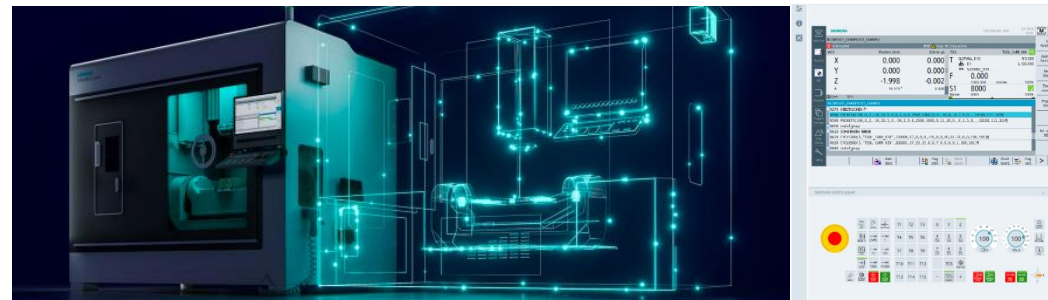
DIGITAL TWIN / Simulation



DIGITAL TWIN / Disruptive Solution on Machine



CMVM & RMVM



IoT / A Connected NC Robot

Not only to produce a part, but also to produce data

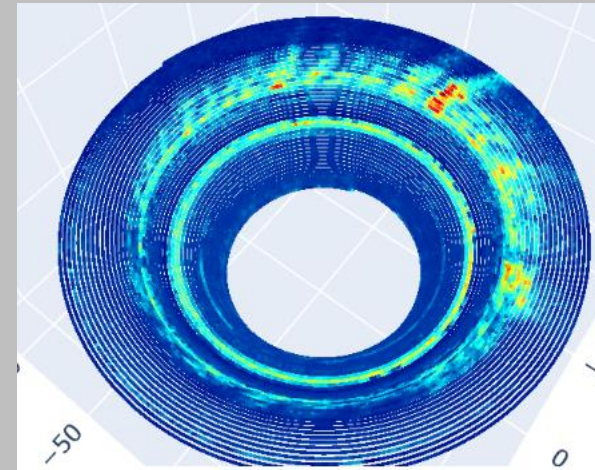

Data for the Machine Monitoring



Data for Process Improvement

Edge Computing
Big Data, Deep Learning, IA

Data transfert
IoT



PART DIGITAL TWIN :

- Complete production history of the part.
- Identification of key process parameter for part quality

