

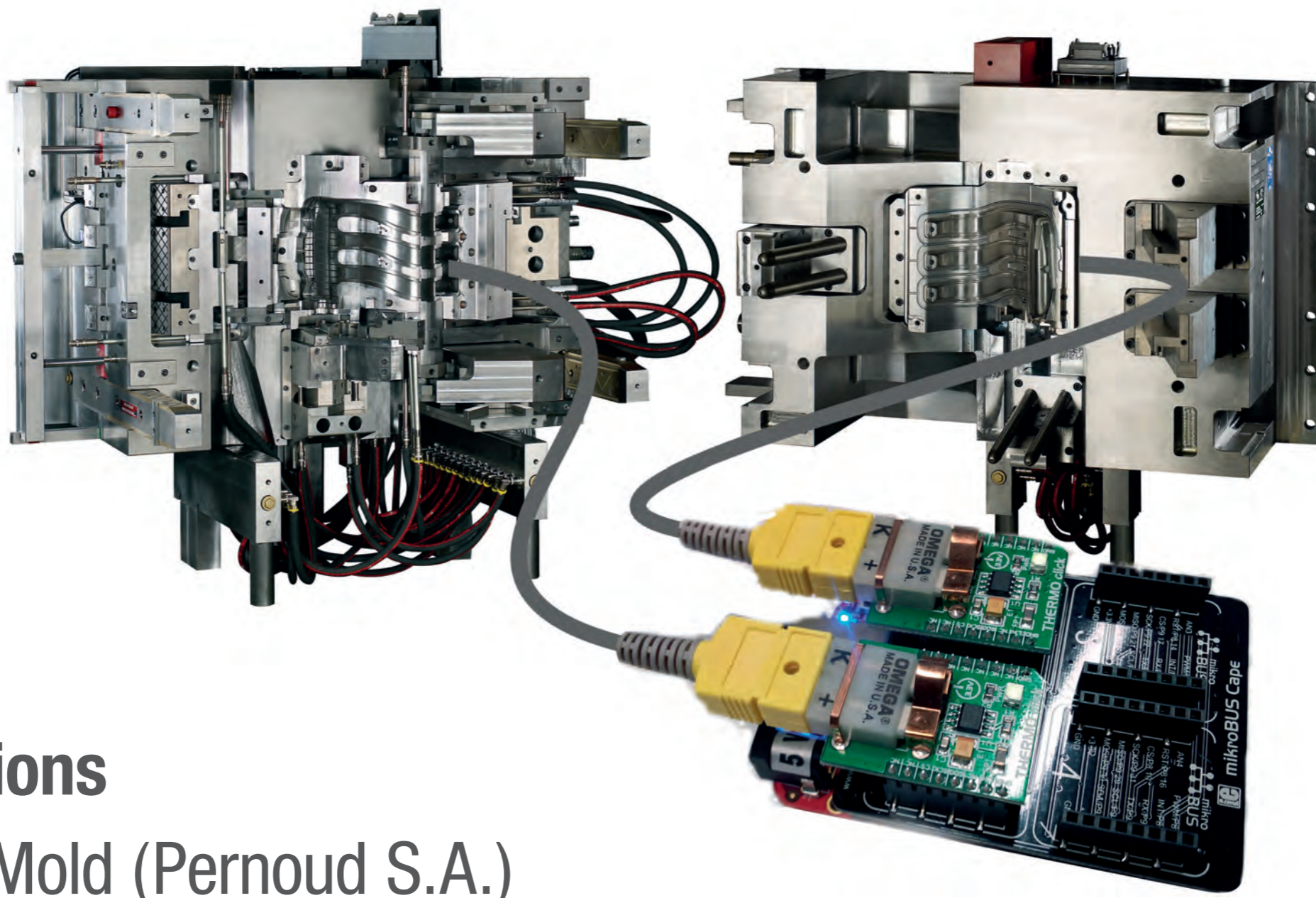
Monitoring for Non Coders

Challenge

- Capture of Timed and Temporal Requirements
- Natural Language Like
- Automatic Monitoring

Innovation

Innovative ergonomic rules oriented language for timed requirements
Monitoring engine to notify their violations



Applications

- Smart Mold (Pernoud S.A.)
- Simulated Nuclear Plant Components (EDF)
- 3D Game Surviving Rules (Ecole 42, Strate Ecole de Design)

Example (Game Rule)

req_hydration: If the avatar gets dehydrated then its heart rate should remain under 150bpm until its hydration is restored within 120s.

```
if (rise of (hydration < hyd_low)) then ((heart_rate < 150) Until[0,120] (hydration ≥ hyd_safe))
```

Benefits

- Lightweight, Embeddable
- Easy expression/modification/re-use of rules
- For non coders/system-engineers/specifiers

Perspectives

- Medicine, Sports, Army, Robotics, Gaming, IoT, Big Data.
- Industrialization of a Monitoring Wristlet (Ecole 42, Strate Ecole de Design)



Contact

nicolas.rapin@cea.fr

