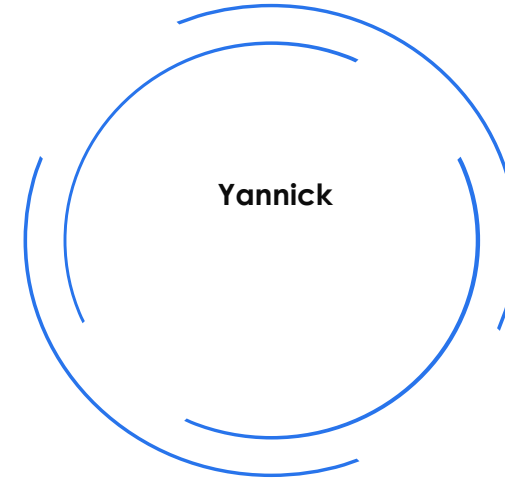
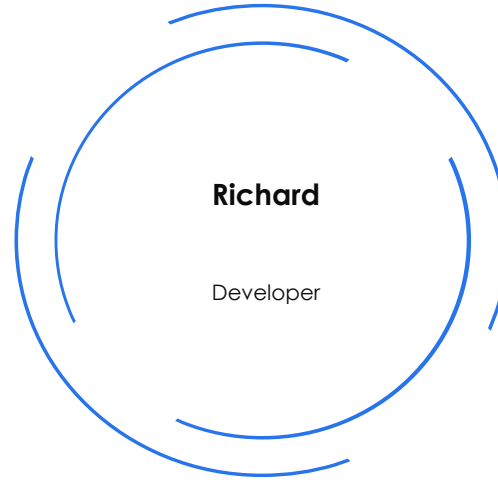
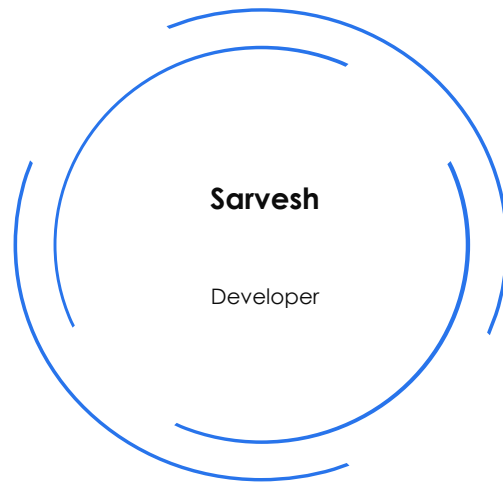
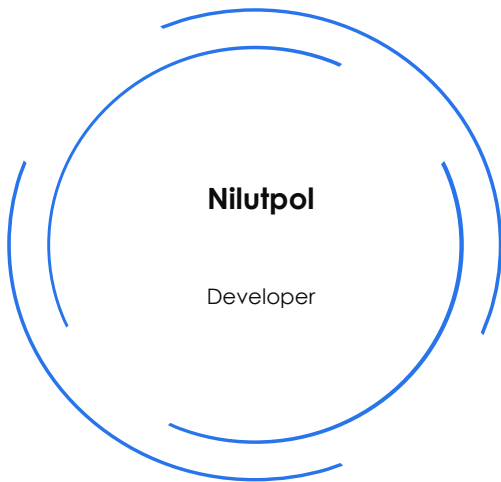




Obscura

Team 4: A.I.
Shutterbugs





The BIG problems

- Imperfect production processes
 - increased resource usage
 - unnecessary waste
 - lack of precise control ~ risks
- Inequal wealth distribution and business development opportunities
 - endangers democracies & peace
 - slows development progress



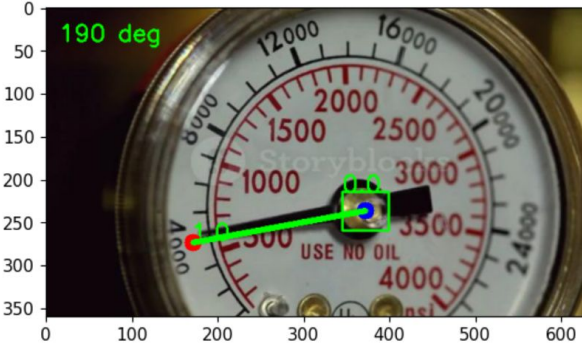
Our Archimedean Point

- Enhance production processes by digitization
 - accurate information allows optimization
 - achieve better quality with reduced costs and higher security
- Level the economic playing field
 - empower businesses worldwide
 - bring production process to top technological level everywhere
 - establish power balance



0.0
0.0
-170
190

```
plt.imshow(ogimg)
plt.show()
```



```
##### Pushing for recognition, count: 3
(1246.0, 348.0), (229.64, -7.255918103650487)
(388.9, 336.8), (112.64, -2.34660913292468)
```

```

##### Pushing for recognition, count:3
(246, 6, 346, 6), (228, 64), -7.24508185565487)
(316, 6, 112, 64), -3.94668112694484)
(198, 4, 618), (164, 64), -3.82774311318995)
0: stats
center(246, 346, 128, 64), angle(154, 64) -7.2 deg
1: link
center(380, 330, 128, 64), angle(154, 64) -5.2 deg
2: 1245
center(198, 432, 128, 64), angle(154, 64) -3.8 deg

##### Pushing for recognition, count:4
(242, 6, 344), (228, 64), -8.230517790887)
(398, 3, 338), (128, 68), -5.21517953146605)
(246, 6, 182), (168, 68), -5.214974955555)
0: B: stats
center(242, 344, 128, 64), angle(154, 64) -8.2 deg
1: link
center(380, 330, 128, 68), angle(154, 64) -5.2 deg
2: 124
center(246, 430, 128, 68), angle(154, 64) -5.2 deg

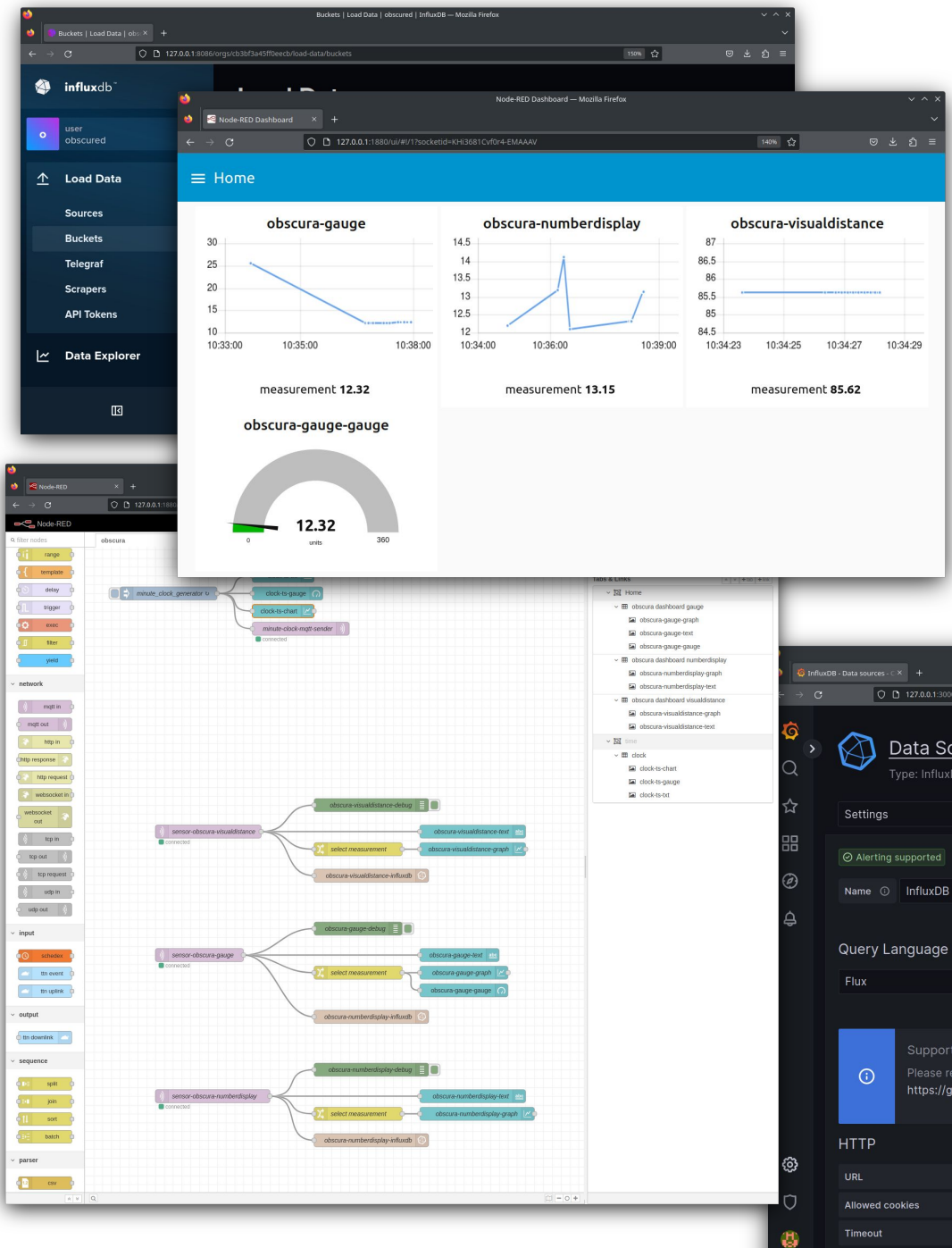
##### Pushing for recognition, count:5
(242, 6, 346, 6), (228, 64), -8.18776533317512)
(316, 6, 112, 64), -3.91868151519121)
(288, 4, 618), (168, 68), -4.18276619722622)
0: stats
center(242, 346, 128, 68), angle(154, 64) -7.3 deg
1: link
center(380, 330, 128, 68), angle(154, 64) -5.2 deg
2: 1845
center(286, 426, 168, 68), angle(154, 64) -6.9 deg

```

depth

X: 0 mm
Y: 0 mm
Z: 180 mm

source @ <https://github.com/intergalactichack/obscura>



Our Technical Approach

Equip production lines with configurable visual sensors

- adaptable to most (all?) analog workflows with visual control
 - implemented in hackathon: captures information from gauges, fill levels, number displays

Send data to Dashboard and time series database

- Analyze based on accurate data
- Optimize processes :
 - energy consumption
 - ordering and usage of materials
 - timing (just in time)
 - preventive maintenance
 - ...



Our Service

Applying fast response “out of the box” service.



What we respond to

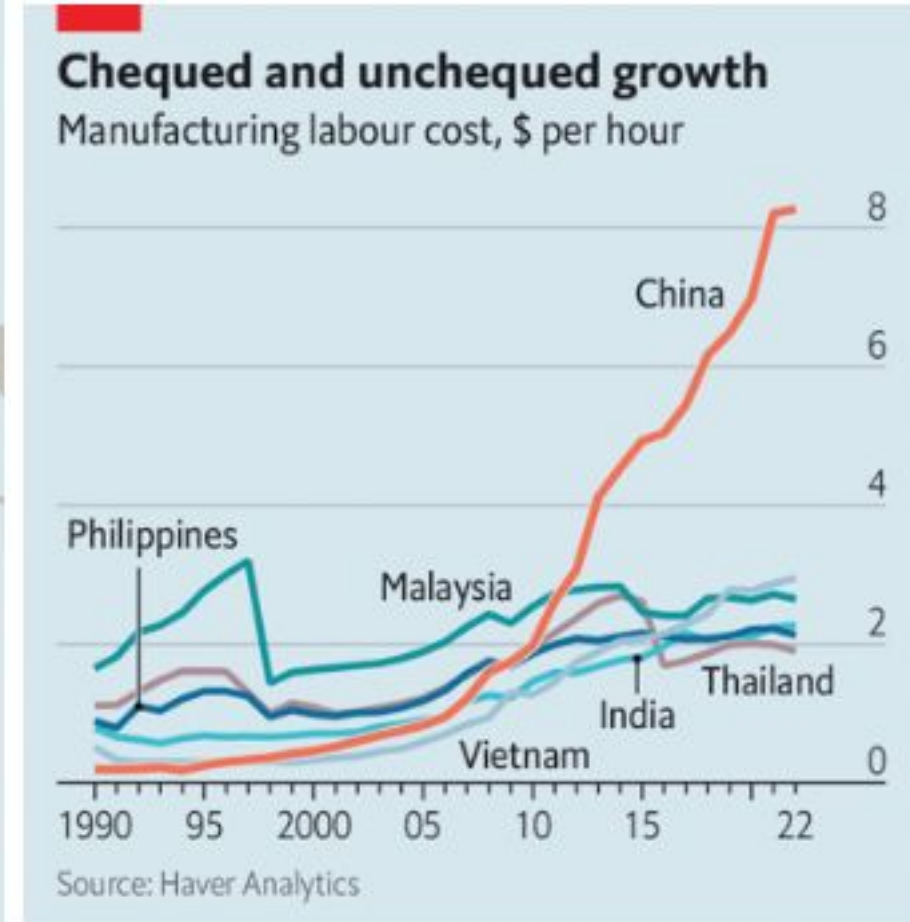
Easy Set-up

Cost efficient maintenance

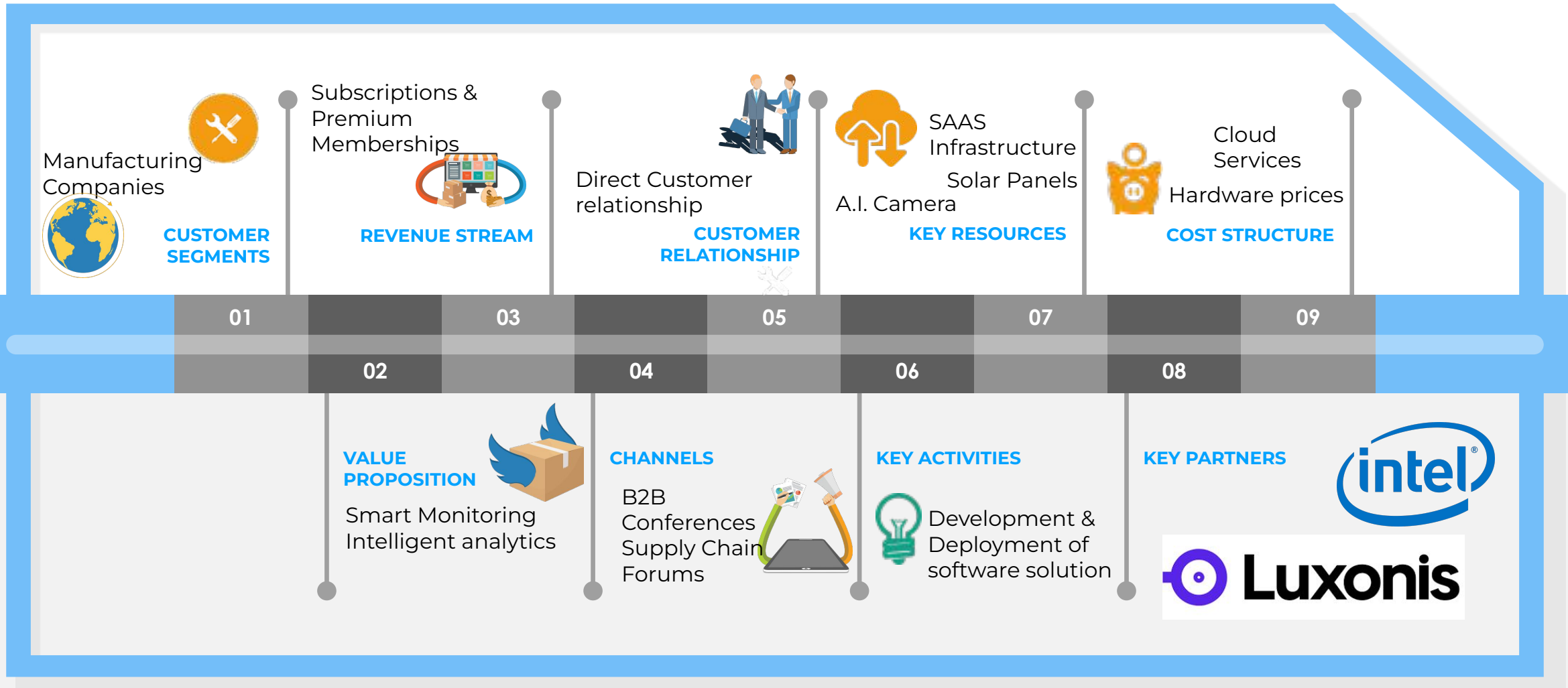
Trusted technology partnerships



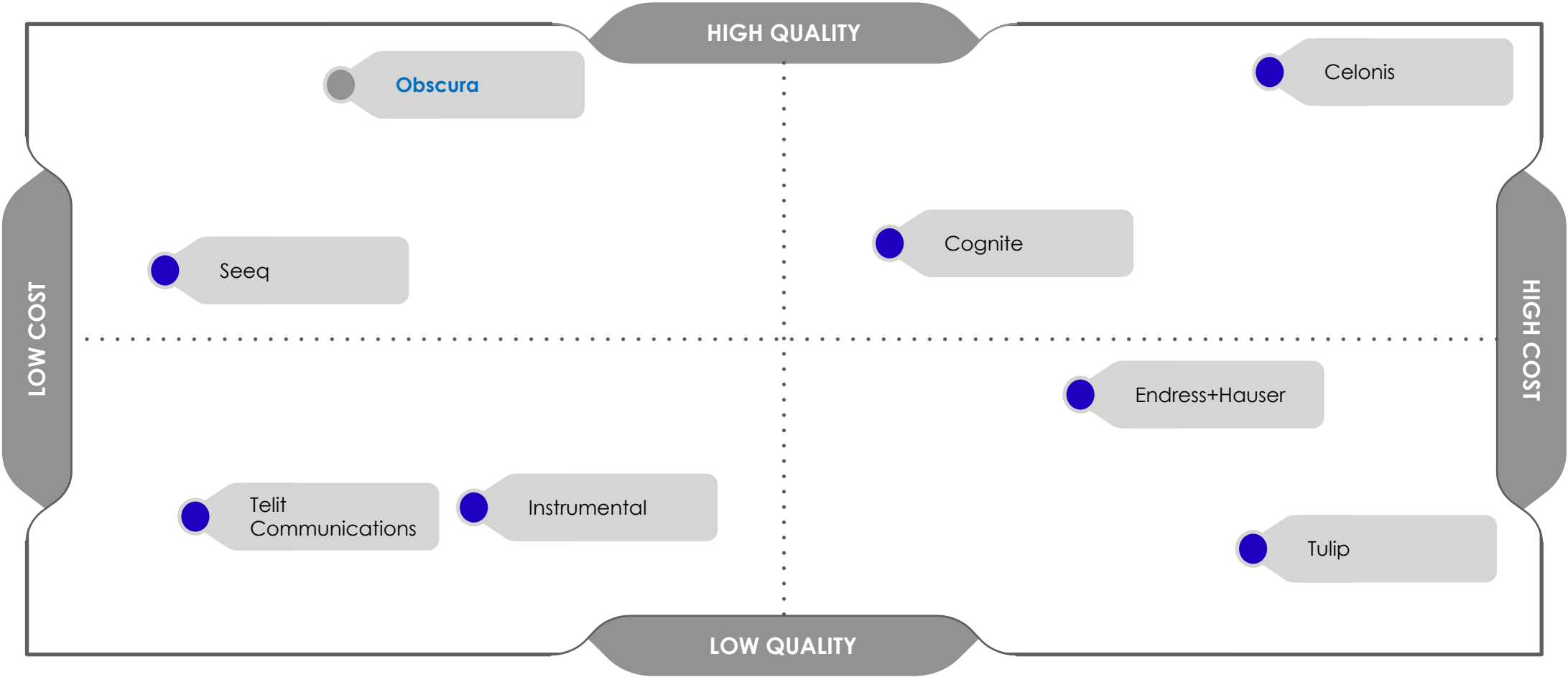
Global firms shift focus to “Altasia”



BUSINESS MODEL



PERCEPTUAL MAP FOR COMPETITIVE ANALYSIS



Questions?

<https://github.com/intergalactichack/obscura>

Benefits

Right to the target long term investment



Our Solution

Applying fast response “out of the box” service



What we respond to

Easy Set-up

Seamless integration in your manufacturing workflow. Our system takes one day to show results.

Cost efficient maintenance

Our low-code solution offers subscription service without any commitment.

Trusted technology partnerships

We partner with Intel and Luxonis for a state-of-the-art cloud edge service combined with the latest A.I. video features.



The Problem



- Geographical Distance between countries
- Difficult Know-How Transfer
- Old manufacturing equipment

