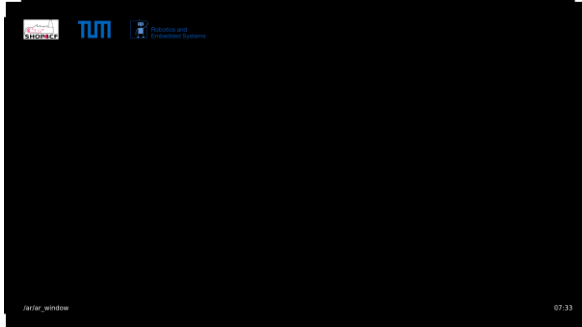


# AR-CVI Fiware Communication

- Task Data Model commands
  - **Add:** To add instructions specified in the Fiware message
  - **Reset:** To reset displayed instructions (and add instructions specified in the Fiware message if any)
  - **AddTemplate:** To add instructions specified in a template json file, which is indicated in the Fiware message
  - **ResetTemplate:** To reset the displayed instructions (and add instructions in a template json file, indicated in the Fiware message if any)

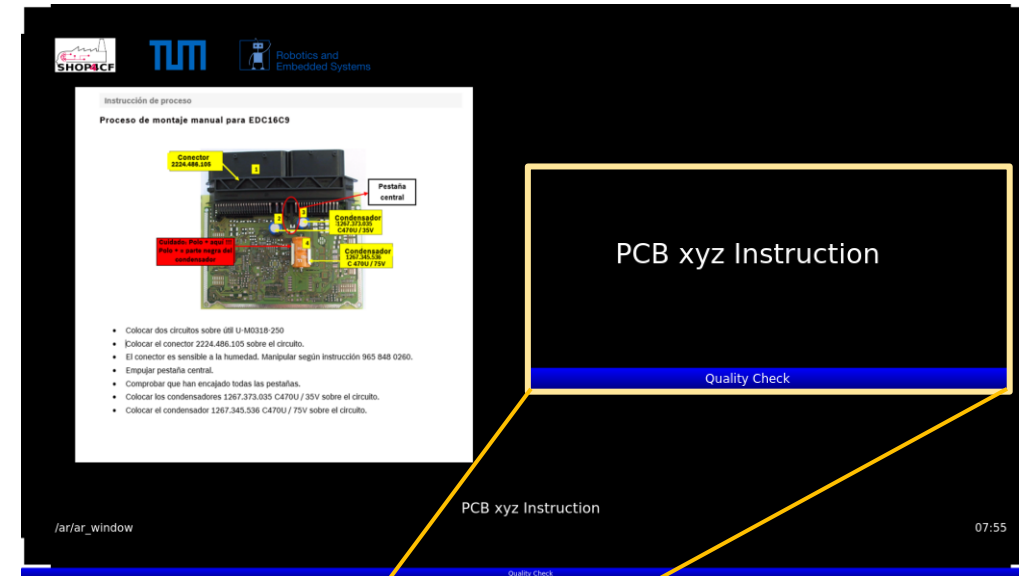
# AR-CVI Examples

- AddTemplate

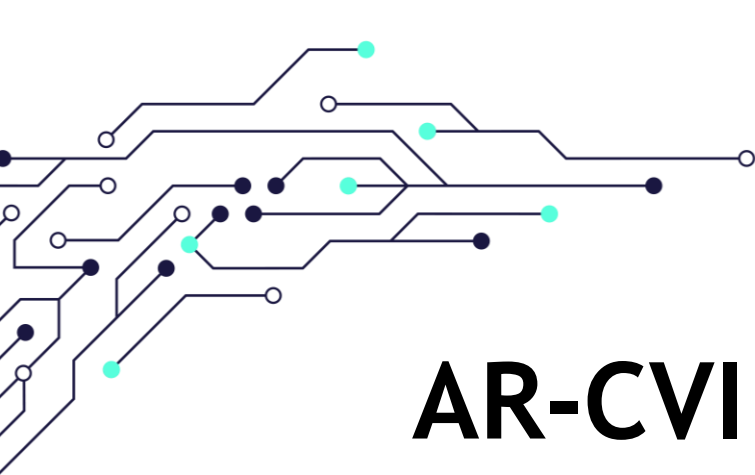


```
282 curl -iX POST \
283 'http://localhost:1026/ngsi-ld/v1/entities' \
284 -H 'Content-Type: application/ld+json' \
285 -d '{
286   "id": "urn:ngsi-ld:Task:bos-uc1:task0001",
287   "type": "Task",
288   "workParameters": {
289     "type": "Property",
290     "value": {"type": "AddTemplate",
291               "path": "/templates/temp-bos-inst.json"
292             }
293   },
294   "outputParameters": {
295     "type": "Property",
296     "value": {
297       "materialsAlreadyTransported": 0,
298       "percentageCompleted": 0
299     },
300     "observedAt": "2020-12-01T11:23:19Z"
301   },
302   "@context": [
303     "https://smartdatamodels.org/context.jsonld",
304     "https://raw.githubusercontent.com/shop4cf/data-models/master/context.jsonld"
305   ]
306 }'
```

Fiware message

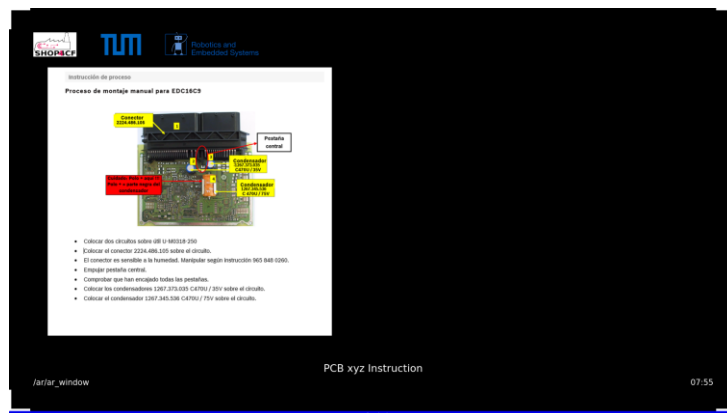


```
1 {
2   "instruction": "PCB xyz Instruction",
3   "images": [
4     {
5       "position": [
6         "-0.62",
7         "0.28",
8         "0.0"
9       ],
10      "width": "750.0",
11      "height": "1000.0",
12      "path": "/images/inst-pcb.png"
13    }
14  ],
15  "outcomes": [
16    {
17      "name": "Quality Check",
18      "type": "1",
19      "id": "1"
20    }
21  ]
22 }
```



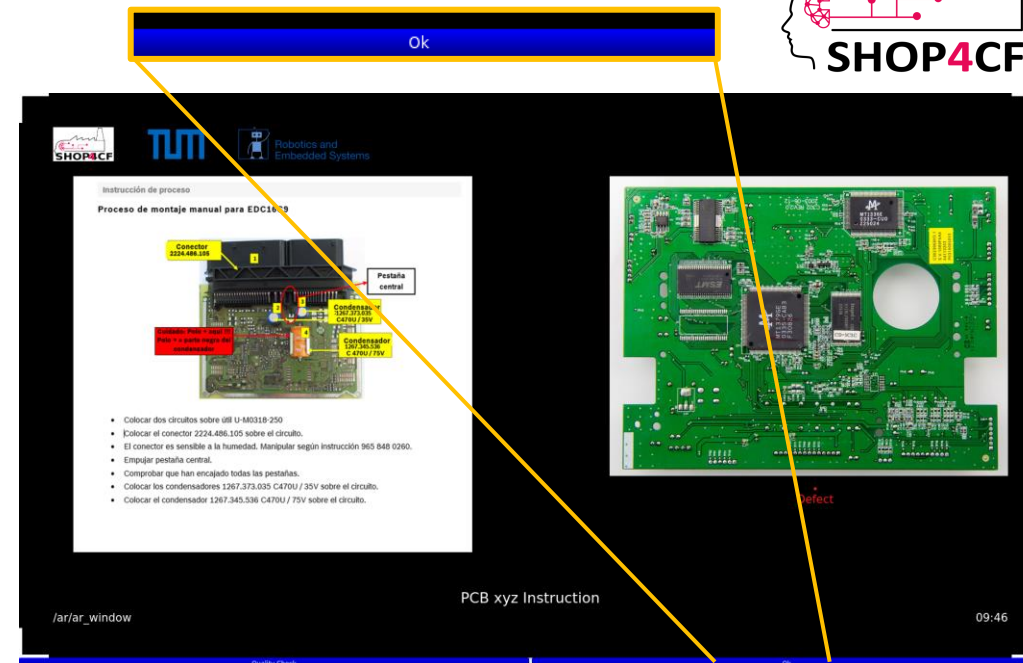
# AR-CVI Examples

- AddTemplate



```
282 curl -iX POST \
283 'http://localhost:1026/ngsi-ld/v1/entities' \
284 -H 'Content-Type: application/ld+json' \
285 -d '{
286   "id": "urn:ngsi-ld:Task:bos-uc1:task0002",
287   "type": "Task",
288   "workParameters": {
289     "type": "Property",
290     "value": { "type": "AddTemplate",
291               "path": "/templates/temp-bos-pcb.json"
292             }
293   },
294   "outputParameters": {
295     "type": "Property",
296     "value": {
297       "materialsAlreadyTransported": 0,
298       "percentageCompleted": 0
299     },
300     "observedAt": "2020-12-01T11:23:19Z"
301   },
302   "@context": [
303     "https://smartdatamodels.org/context.jsonld",
304     "https://raw.githubusercontent.com/shop4cf/data-models"
305   ]
306 }'
```

Fiware message



```
1
2 "images": [
3   {
4     "position": [
5       "0.12",
6       "0.28",
7       "0.0"
8     ],
9     "width": "750.0",
10    "height": "1000.0",
11    "path": "/images/pcb_example.jpg"
12  } ],
13 "outcomes": [
14   {
15     "name": "Ok",
16     "type": "1",
17     "id": "1"
18   } ],
19 "pois": [
20   {
```

```
19   "pois": [
20     {
21       "position": [
22         "0.4",
23         "-0.15",
24         "0.0"
25       ],
26       "radius": "0.001",
27       "label": "Defect",
28       "fill_color": {
29         "r": "1.0",
30         "g": "0.1",
31         "b": "0.1",
32         "a": "0.7"
33       },
34       "border_color": {
35         "r": "1.0",
36         "g": "0.1",
37         "b": "0.1",
38         "a": "1.0"
39       }
40     }
41   ]
42 }
43
44
```