**I3D Service Architecture**

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**Selection criteria for I3D implementation**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Values (+-)** | **Facility scans** | **I3D workflow****Development** | **Learning****Management** | **I3D Service****Field use** | **I3D Service** **Maintenance** | **I3D Service** **Innovation** |
| +10 |  |  |  | Mission critical use |  |  |
| +9 |  |  |  |  |  |  |
| +8 |  |  | AR workflow |  |  |  |
| +7 |  |  |  |  |  |  |
| +6 |  |  |  |  |  |  |
| +5 |  |  |  | Cost and risk saving |  |  |
| +4 | 3D pano general use |  |  |  |  |  |
| +3 |  |  | Simple VR workflow |  |  |  |
| +2 |  |  |  |  |  |  |
| +1 |  |  |  |  |  |  |
| 0 | Selected plant | Knowledge benefits | Learning benefits | Operational benefits | Availability | Sustainability |
| -1 |  |  |  |  |  |  |
| -2 |  | Additional plugins |  |  |  |  |
| -3 | 2nd I3D app |  |  |  |  |  |
| -4 |  |  |  |  |  |  |
| -5 |  |  |  |  |  |  |
| -6 |  |  | VR mode |  |  |  |
| -7 |  |  |  | Tuning |  |  |
| -8 |  |  |  |  |  |  |
| -9 |  | Common Plugins |  |  |  |  |
| -10 | 1st simple I3D app |  |  |  |  |  |
| **Time** | **T1** | **T2** | **T3** | **T4** | **T5** | **T6** |
| ValueFactor | **1** | **5** | **10** | **100** | **5** | **5** |
| Occurence/Y | **1** | **1** | **50** | **50** | **12** | **2** |
| Value | **1\*1\*(4-3-10)=****-9** | **5\*1\*(-2—9)=****-55** | **10\*50\*(-5-1+11)=****250** | **100\*50\*(-7+15)=****40000** | **5\*12\*(-1-5)=****-360** | **5\*2\*(-1-3)=****-40** |

**Selection criteria: (High risk/saved cost of workflow failure) \* (High Occurence of workflow) – (I3D Development & service operations cost) = MAX**

B. AR/VR Work Learning

Repository

C1. Company IT systems

C2. Process control systems

C1. Company IT systems

D. Process values simulator

E. Helmet system Hx-Wx-Px

Off-line mode

Extract of A and B for helmet Hx and workflow Wx and person Px

C1x. Operations monitoring

system

F.

Helmet system

Hx-Wx-Px

On-line mode

Work offline – no Wifi

Work on-line

G. Remote desktop Instructor

Work on-line

C2. Process control systems