

Smartness vs. Standard CSSD Practice: A Path to the Future of Sterilization and Disinfection

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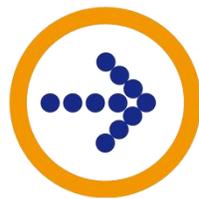
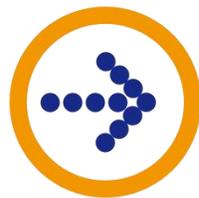


Part 1

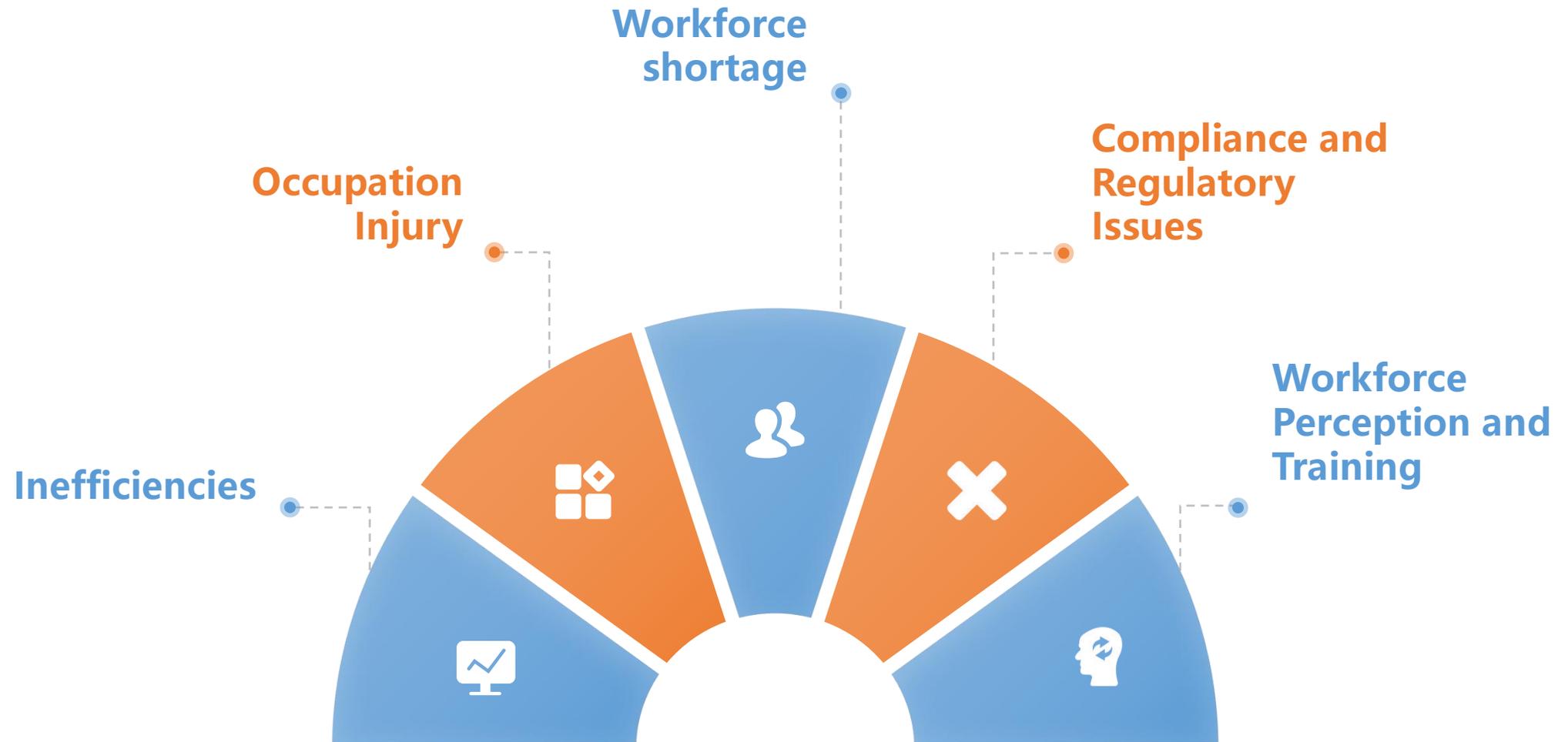
Background



Evolution of CSSD working approaches



The challenges faced in standard CSSD



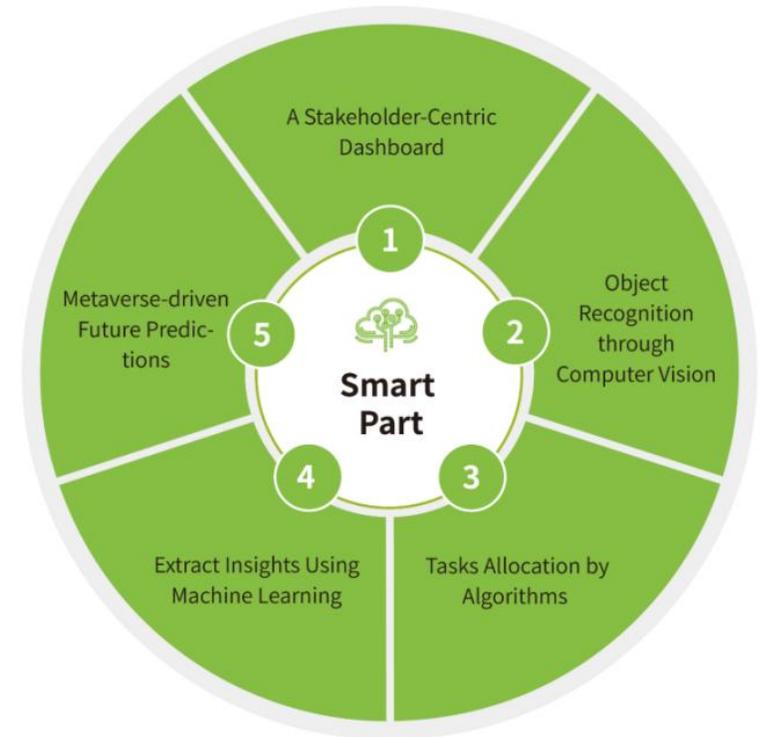
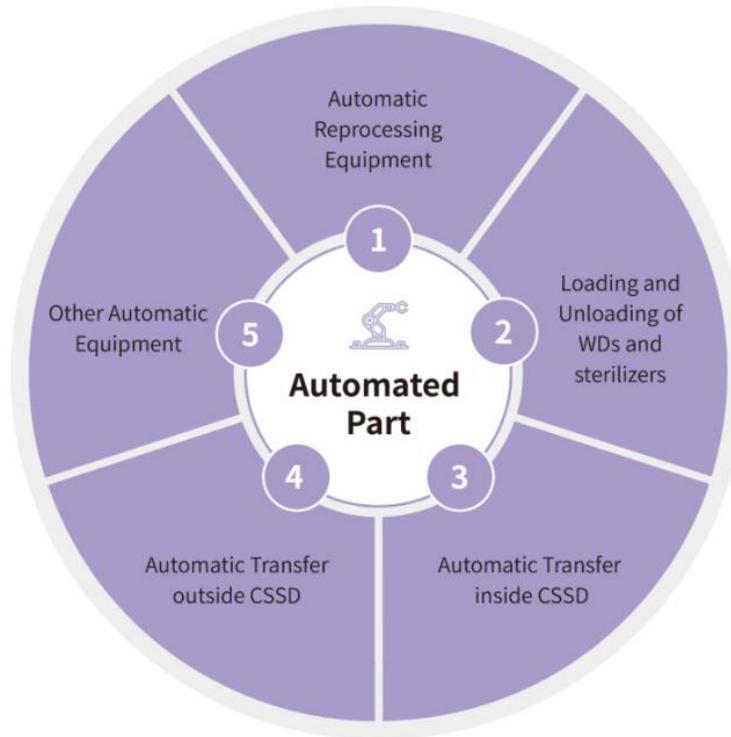
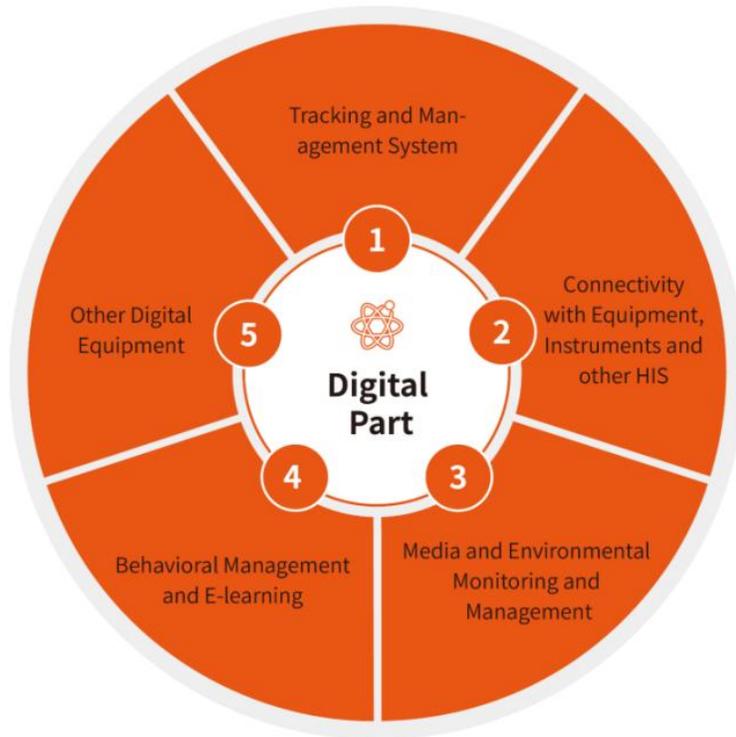


Part 2

The Emergence of Smart CSSD



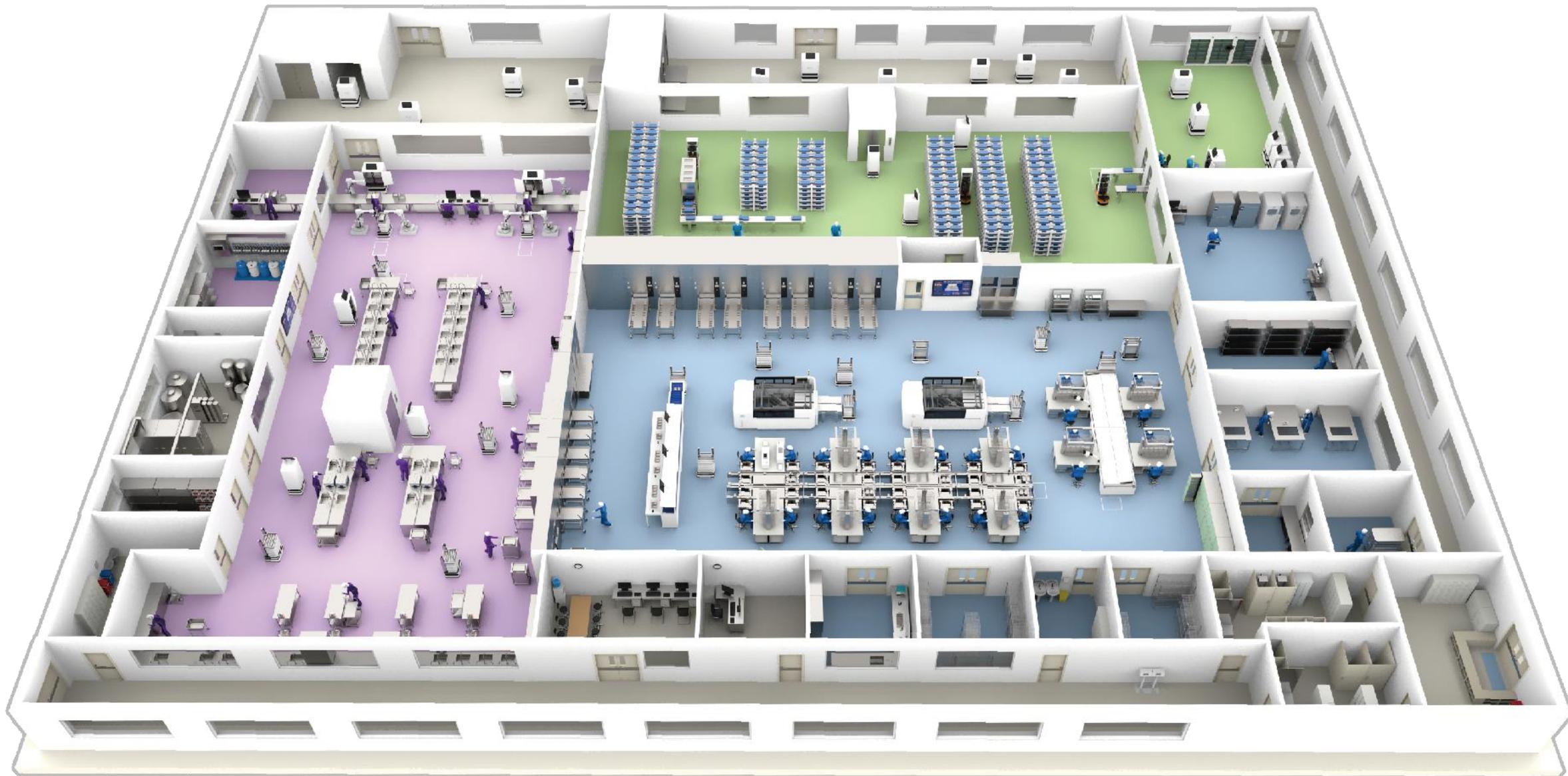
The Concept of Smart CSSD



Landscape of Smart CSSD

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Logistics automation - AMR(Autonomy Mobile Robot)



Jacking AMR



AMR with roller



AMR for WD



AMR with cabinet



AMR for endo



Forklift AMR

AMR integrated with washers





AMR for warehouse



Self for CSSD basket



Self for CSSD container

Storage Automation

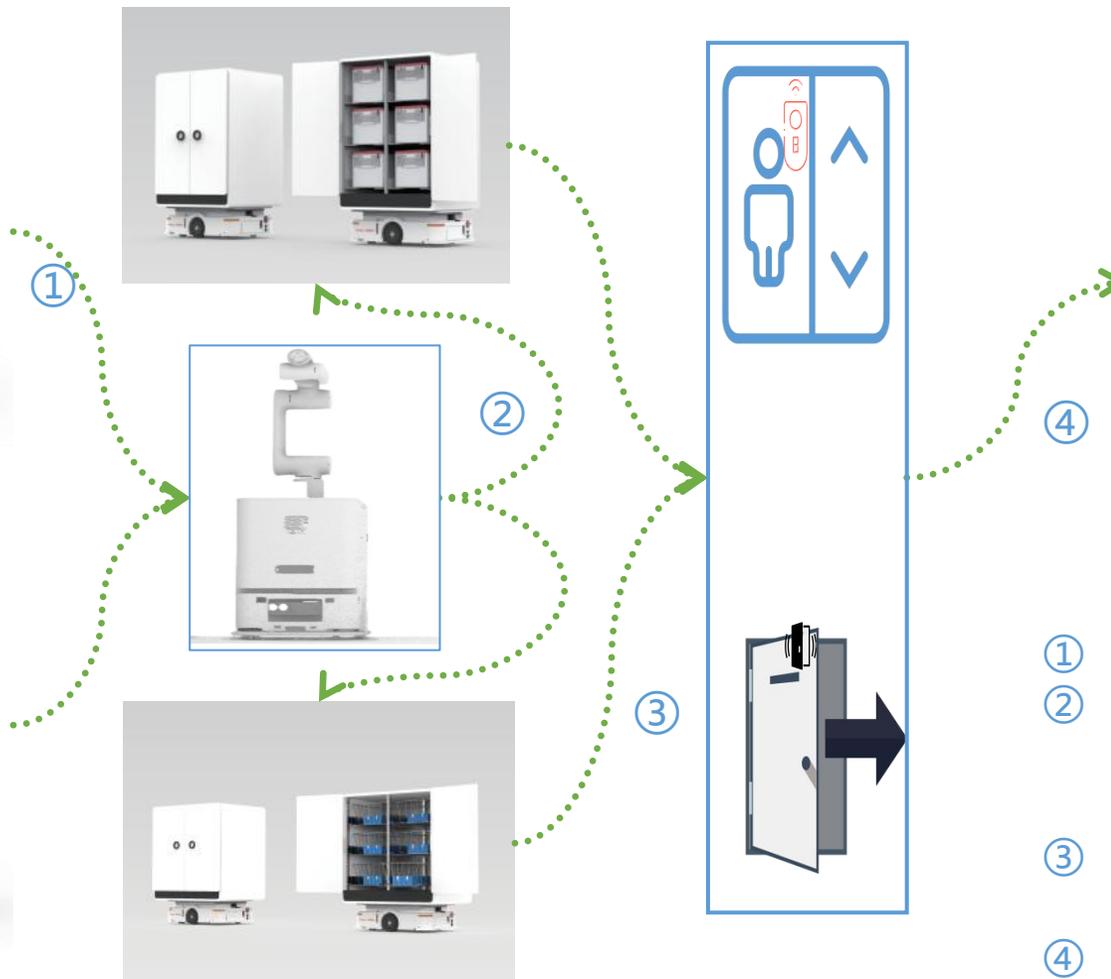
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Transportation between CSSD/CSSU & OT

CSSD/CSSU



OT



- ① Picking the containers from the self with AMR
- ② Transfer the containers from the self to AMR with co-robot automatically (two containers per time)
- ③ AMR go through the doors and elevators equipped with specific controllers automatically
- ④ Put the containers onto the self by AMR or manually



Transportation between CSSD/CSSU & OT

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Algorithm Driven Conveying System in IAP

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Less time waste on passing instrument sets

Storage Management



Complete putaway & picking tasks in less time, with fewer errors

CSSD IoT Terminal - SteriCube

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☰ 欢迎进入消供魔方配置后台 (版本: v1.1)

📅 2023-07-05 星期三 下午 13:51:58

🔔 异常 0

🖥️ 全屏

👤 honjo 红袖医疗

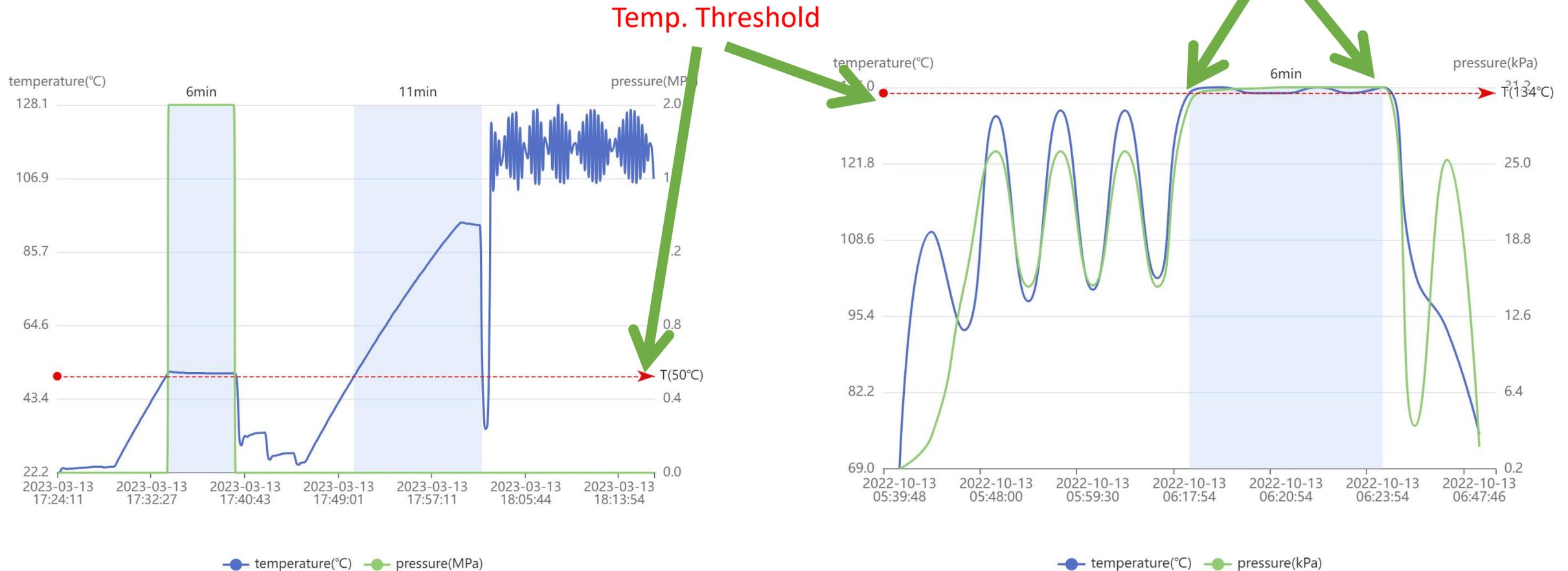
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<p>📅 强生低温 ⓘ</p> <p>今日锅次 0</p> <p>总锅次 0</p>	<p>📅 1号高温灭菌器 ⓘ</p> <p>今日锅次 0</p> <p>总锅次 1</p>	<p>📅 2号高温灭菌器 ⓘ</p> <p>今日锅次 0</p> <p>总锅次 0</p>	<p>📅 2号灭菌器 ⓘ</p> <p>今日锅次 0</p> <p>总锅次 0</p>
<p>📅 2号清洗机 ⓘ</p> <p>今日锅次 0</p> <p>总锅次 0</p>	<p>📅 6号灭菌器 ⓘ</p> <p>今日锅次 0</p> <p>总锅次 0</p>	<p>📅 1号江汉灭菌器 ⓘ</p> <p>今日锅次 0</p> <p>总锅次 0</p>	<p>📅 倍力曼灭菌器1号 ⓘ</p> <p>今日锅次 0</p> <p>总锅次 0</p>
<p>📅 白象灭菌器1号 ⓘ</p> <p>今日锅次</p> <p>总锅次</p>	<p>📅 老肯清洗机 ⓘ</p> <p>今日锅次</p> <p>总锅次</p>	<p>📅 老肯低温灭菌器 ⓘ</p> <p>今日锅次</p> <p>总锅次</p>	<p>📅 美雅洁清洗机 ⓘ</p> <p>今日锅次</p> <p>总锅次</p>

已对接厂家

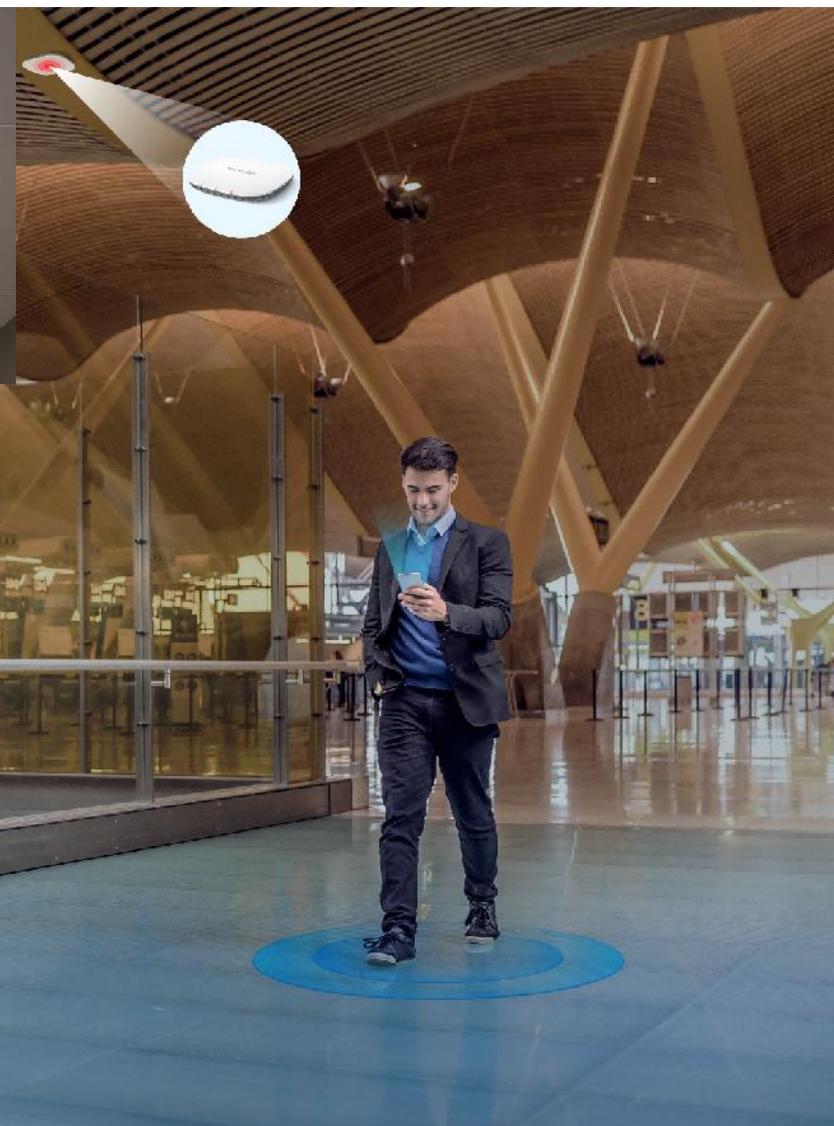
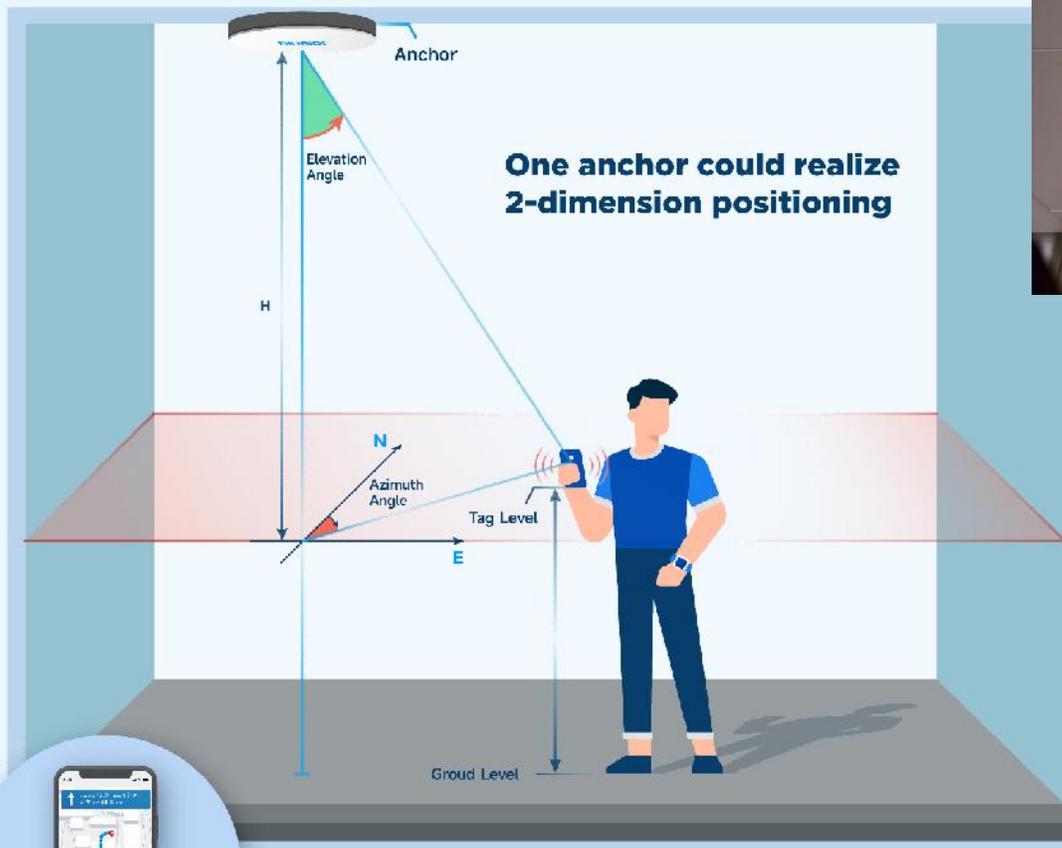
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 SHINVA 新华医疗	 STERIS	 白象新技术 BAIXIANG NEW TECHNOLOGY	 佑源®	 matachana	 YOMA 优玛

Application example of SteriCube

- Threshold setting of temperature & Pressure
- Counting of duration
- Warning message



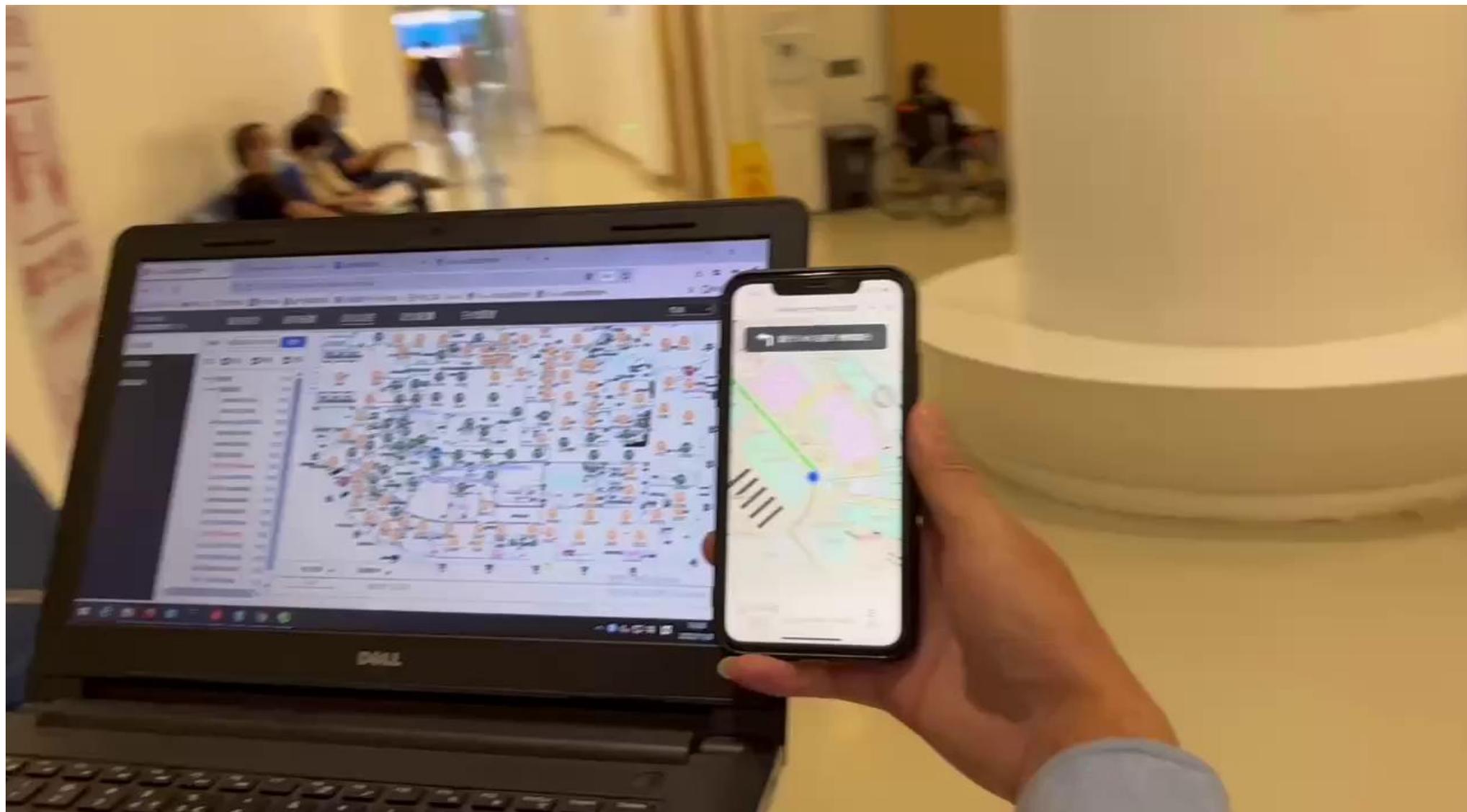
Indoor Real-time Location



Indoor Real-time Location - Bluetooth

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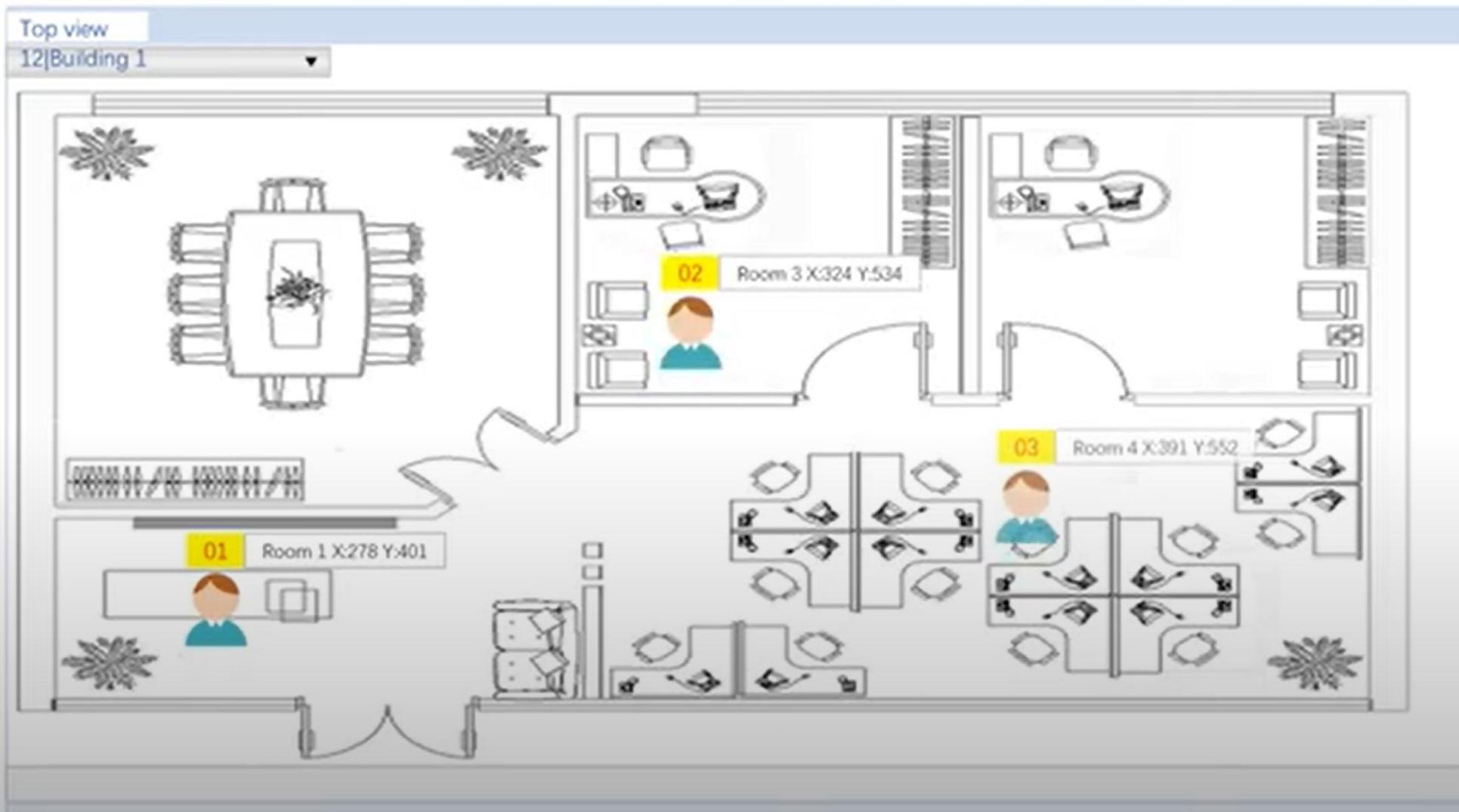
成就消供人 成就消供事 成就消供梦





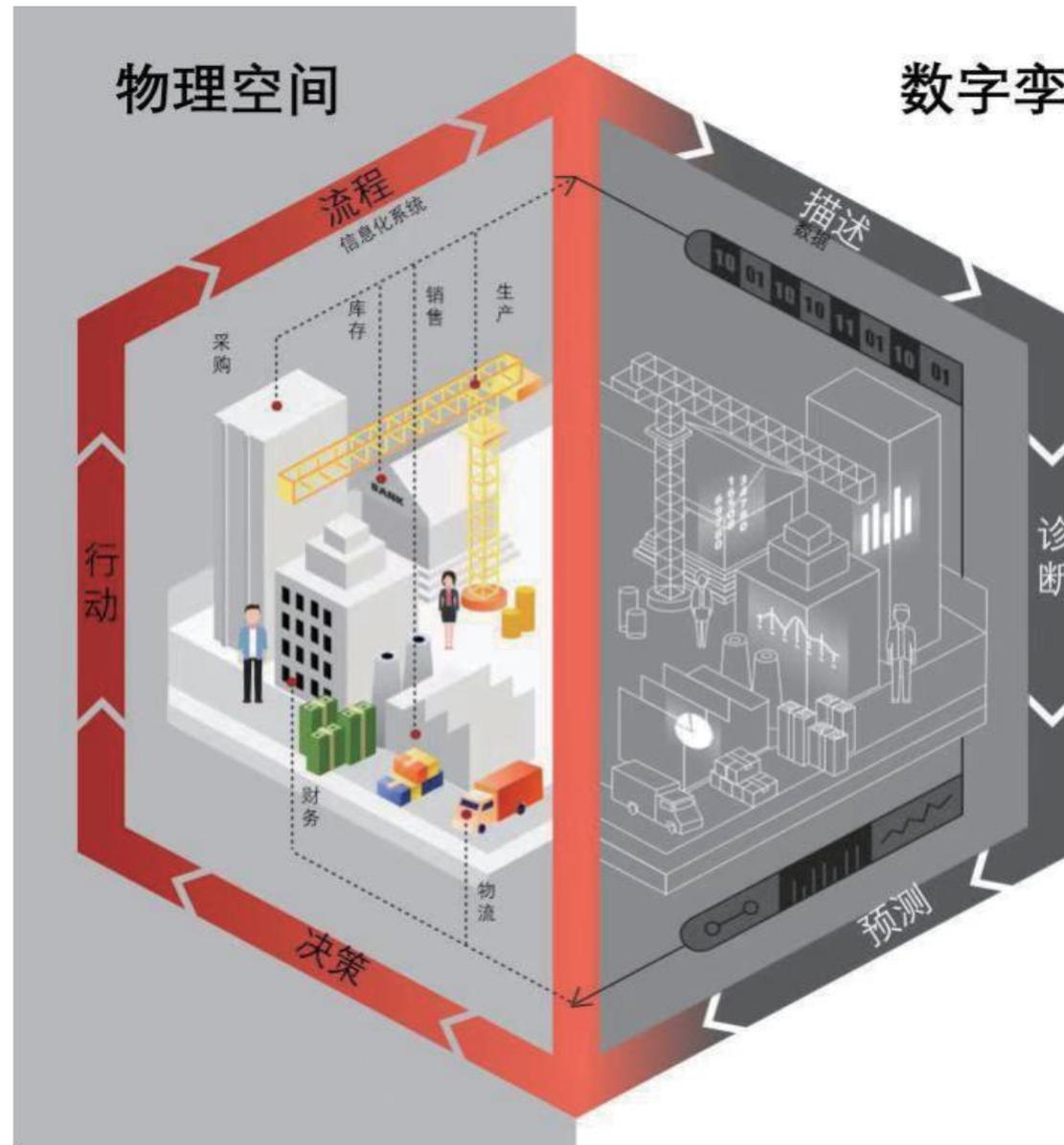
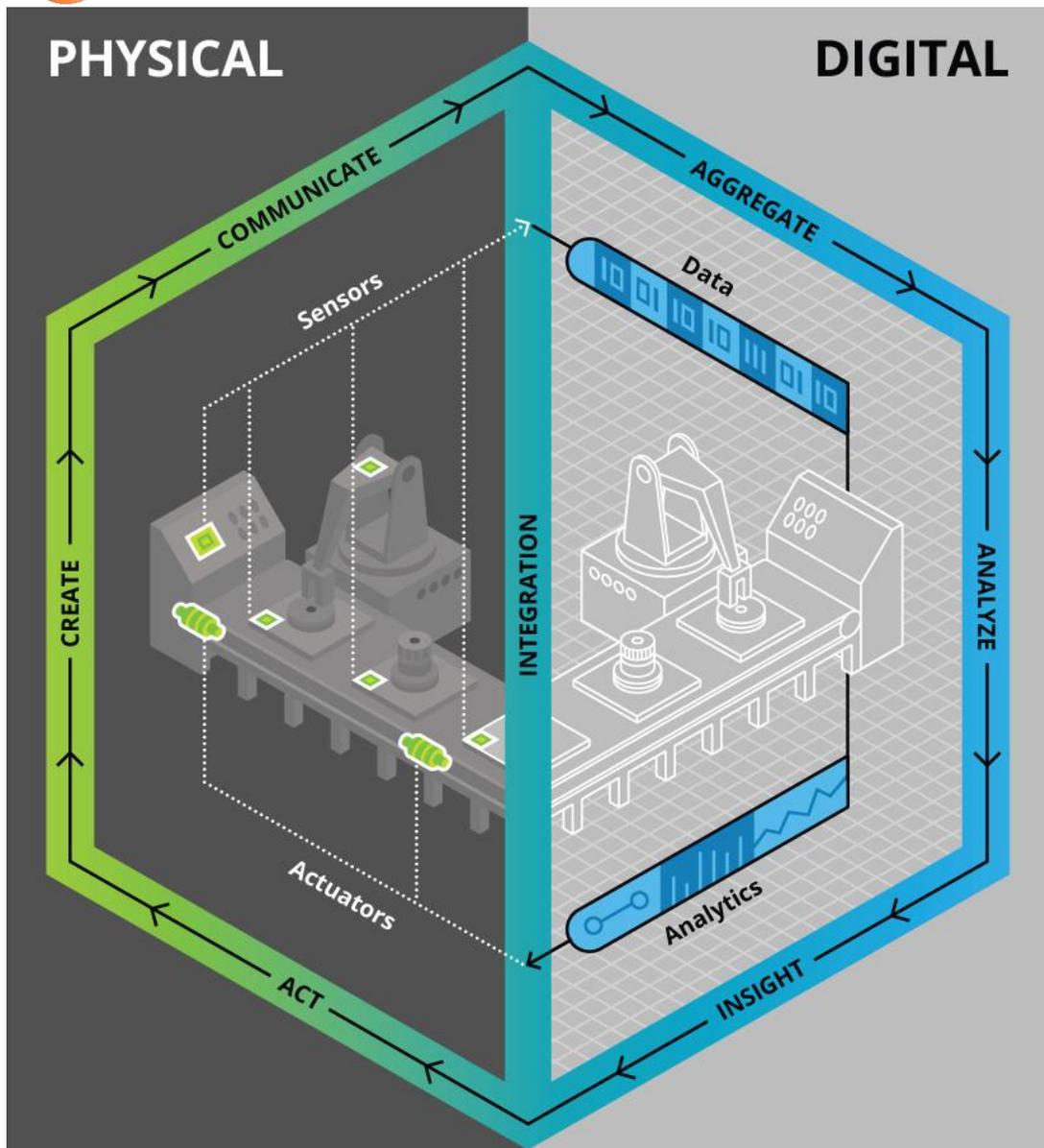
Indoor Real-time Location - RFID

System Real-time tracking and location monitoring



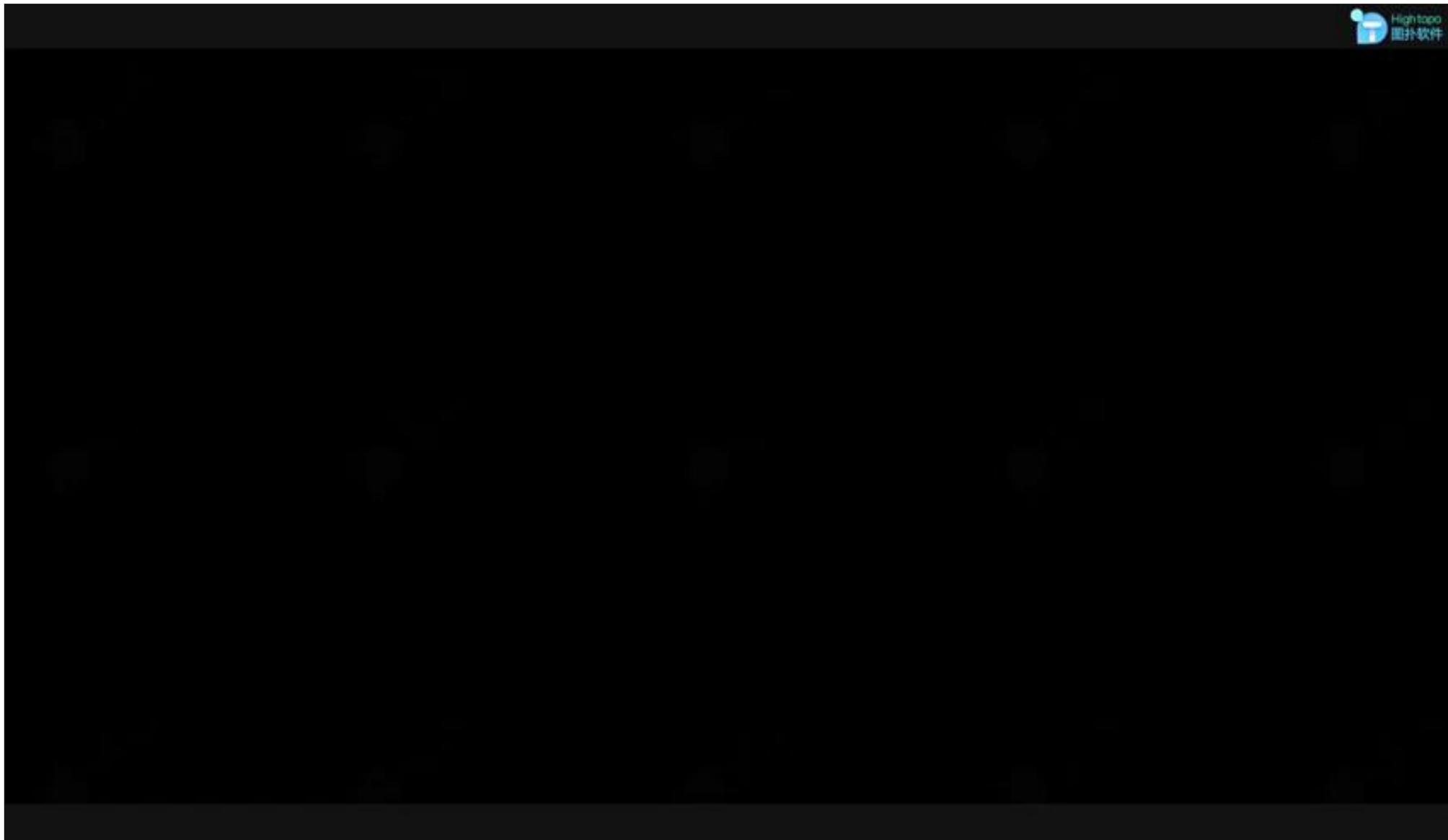
server software

Digital Twin Model





Digital Twin



Benefits of Smart CSSD

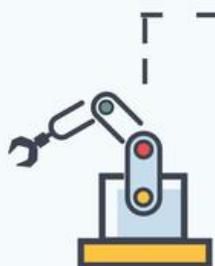




Most Critical Factor of Smart CSSD/CSSU



SMART SYSTEMS



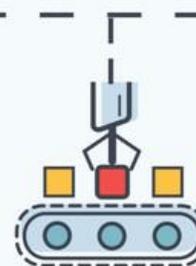
Automation



Big Data



Cloud computing



Autonomous



IOT



Data Management

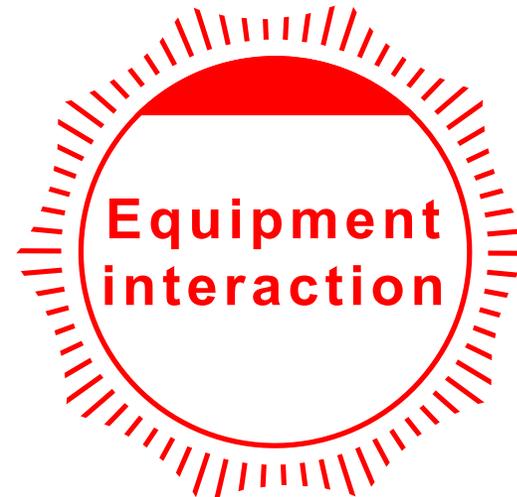
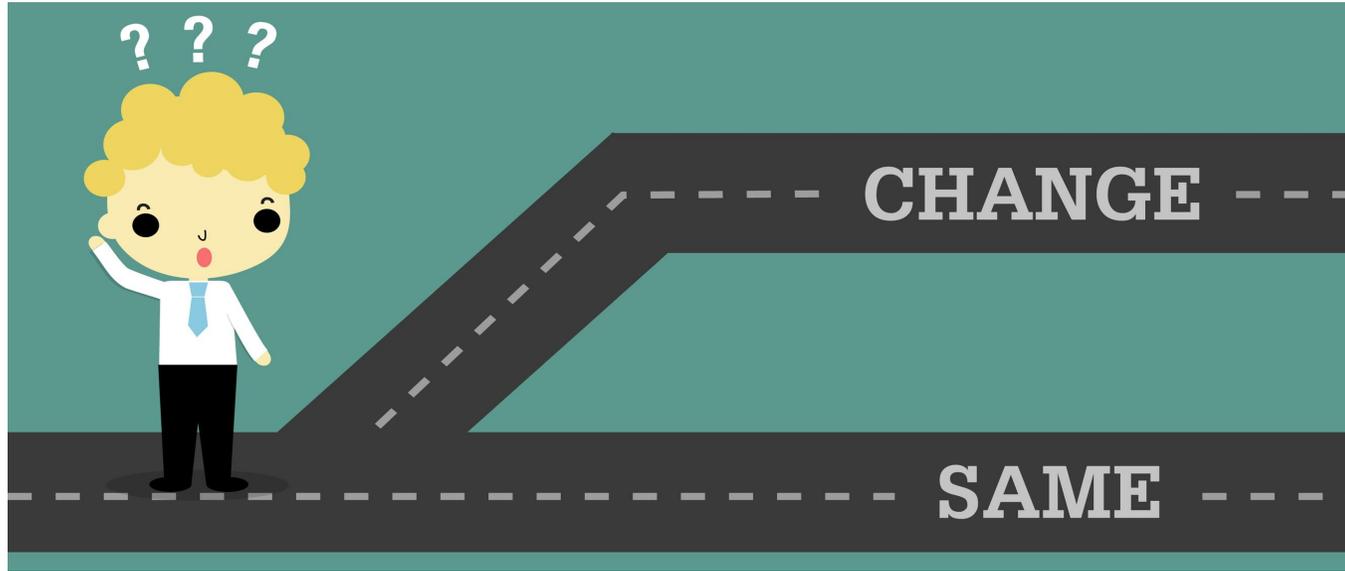


Part 3

Future Outlook



Challenges and Considerations



Thanks