



## AIFILL CYLINDER FILLING – BY IGAS TECHNOLOGY SOLUTIONS

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**We are World Leaders in the innovative design, engineering and delivery of technical solutions to the Industrial Gases & Clean Energy sectors, providing guaranteed, risk-free solutions to maximise return on investment for our customers.**

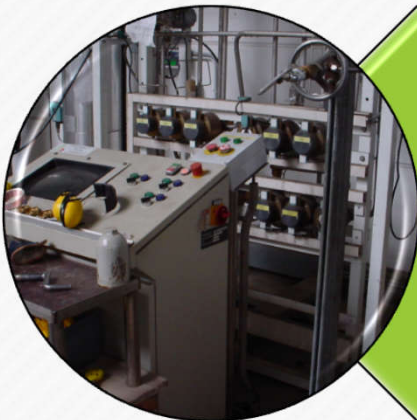
<b>Package Gas Filling – Potted History</b>	<b>4</b>
<b>Why Choose iGAS – Project Delivery</b>	<b>5</b>
<b>Why Choose iGAS – Factory Built Packages</b>	<b>6</b>
<b>Why Choose iGAS – AiFill G2</b>	<b>8</b>
<b>Why Choose iGAS – Support</b>	<b>13</b>
<b>Why Choose iGAS – IGPH Group</b>	<b>14</b>
<b>We Also Do</b>	<b>15</b>
<b>Summary</b>	<b>16</b>



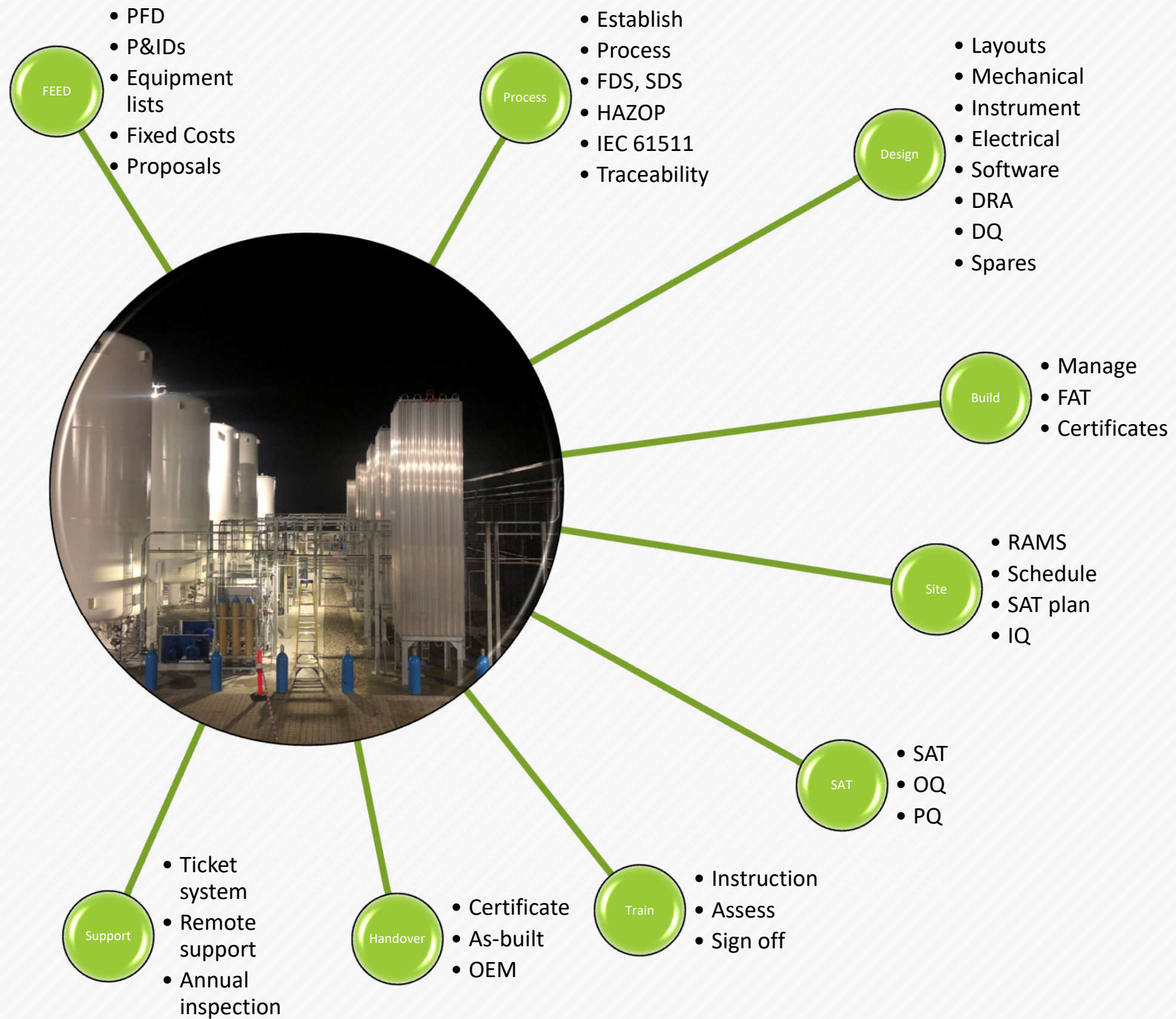
Pre 1980's: manual; <200bar; rack filling;  
limited factory build; Unbalanced valves;  
Bespoke projects



1980's introduction of: bespoke semi-auto  
filling (pressure temperature  
compensation); 200 & 230 bar; pallet filling;  
balanced valves; still limited factory build;  
still bespoke projects; manual information  
recording; high maintenance costs



Late 1990's: introduction of modular valve  
systems and more factory build;  
300bar; high quality balanced valves; some  
mass flow filling; still bespoke projects;  
limited information recording; still high  
maintenance costs





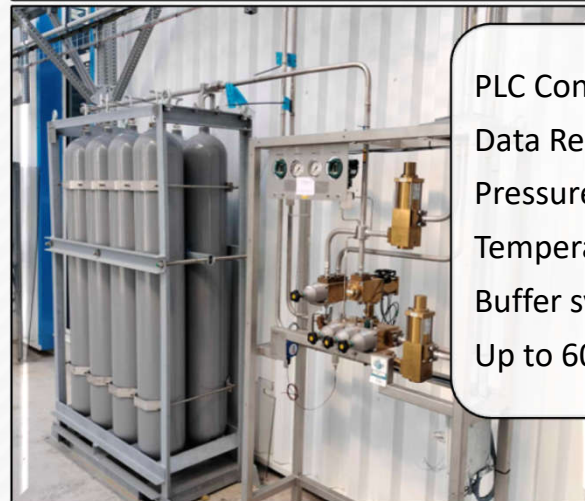
# Modular – Robust - High Quality – Options - Factory Built - Factory Tested

## Pump Systems



- PLC Control (AiFILL)
- Data recording
- Speed options
- O2 features
- Medical features
- Up to 600bar design

## Line Manifolds



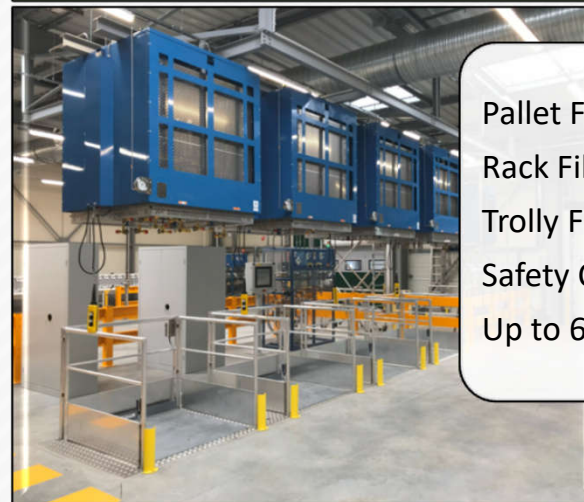
- PLC Control (AiFill)
- Data Recording
- Pressure safety
- Temperature safety
- Buffer system
- Up to 600bar design

## Filling Modules



- PLC Control (AiFill)
- Data recording
- Pressure Temp Filling
- Mass Flow Filling
- Fill-Vent-Vacuum
- Safety Shielding
- HMI Interface
- Up to 600bar design

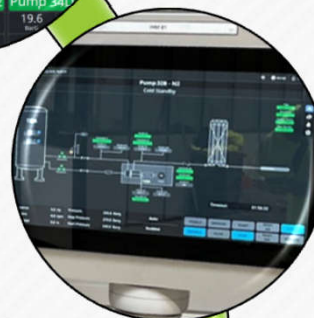
## Filling Stations



- Pallet Filling
- Rack Filling
- Trolley Filling
- Safety Cages
- Up to 600bar design



**What** - a powerful, future proof, modular based control system; standardised software; Quick & easy commissioning



**Who** – In-house experts; Built upon tried and trusted Siemens S7-1500 ( ET200SP) platform with Ignition SCADA & HMI Systems

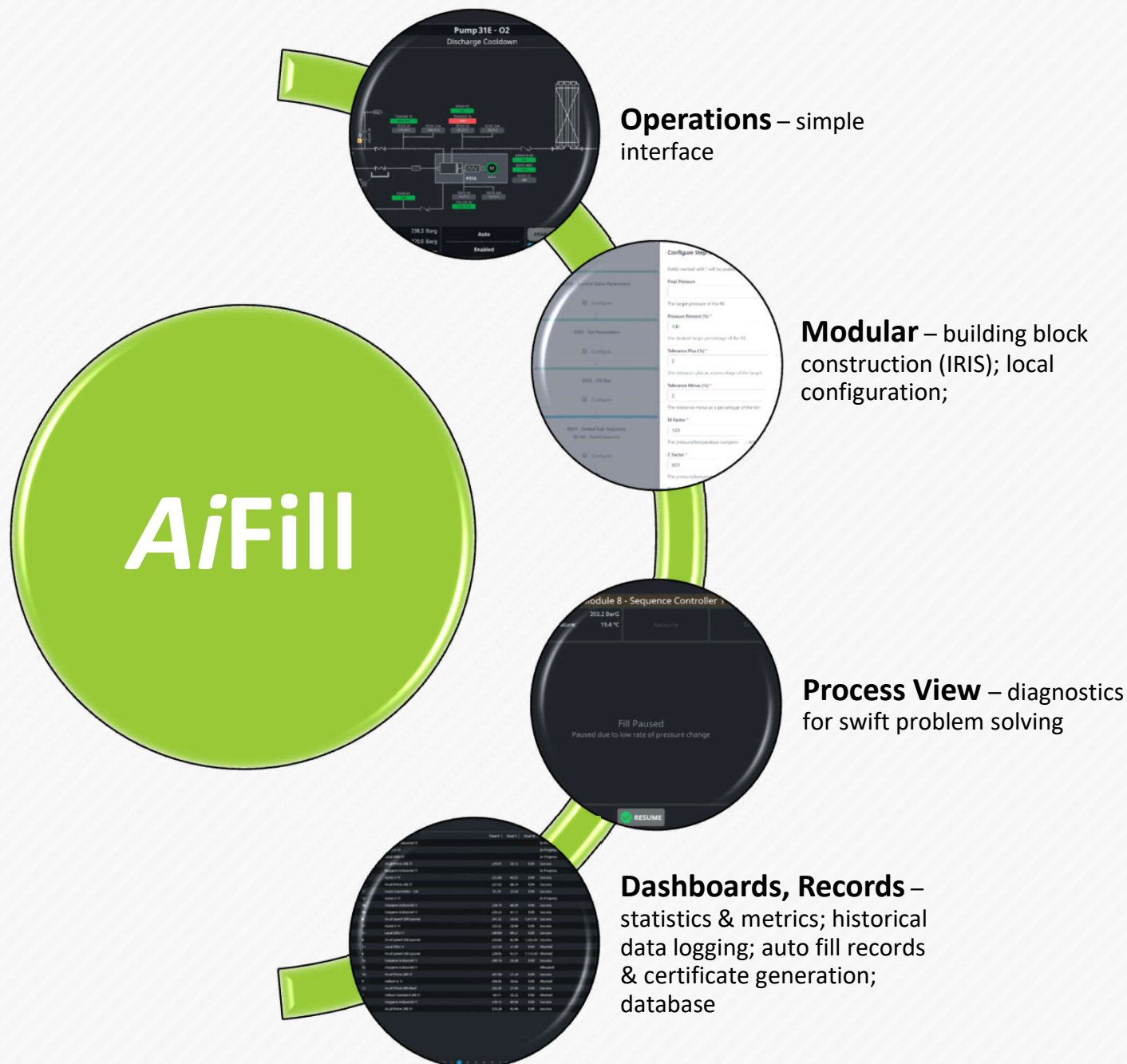


**Where** – deployed globally for many clients; Multi language support; secure support from anywhere in world; local configuration



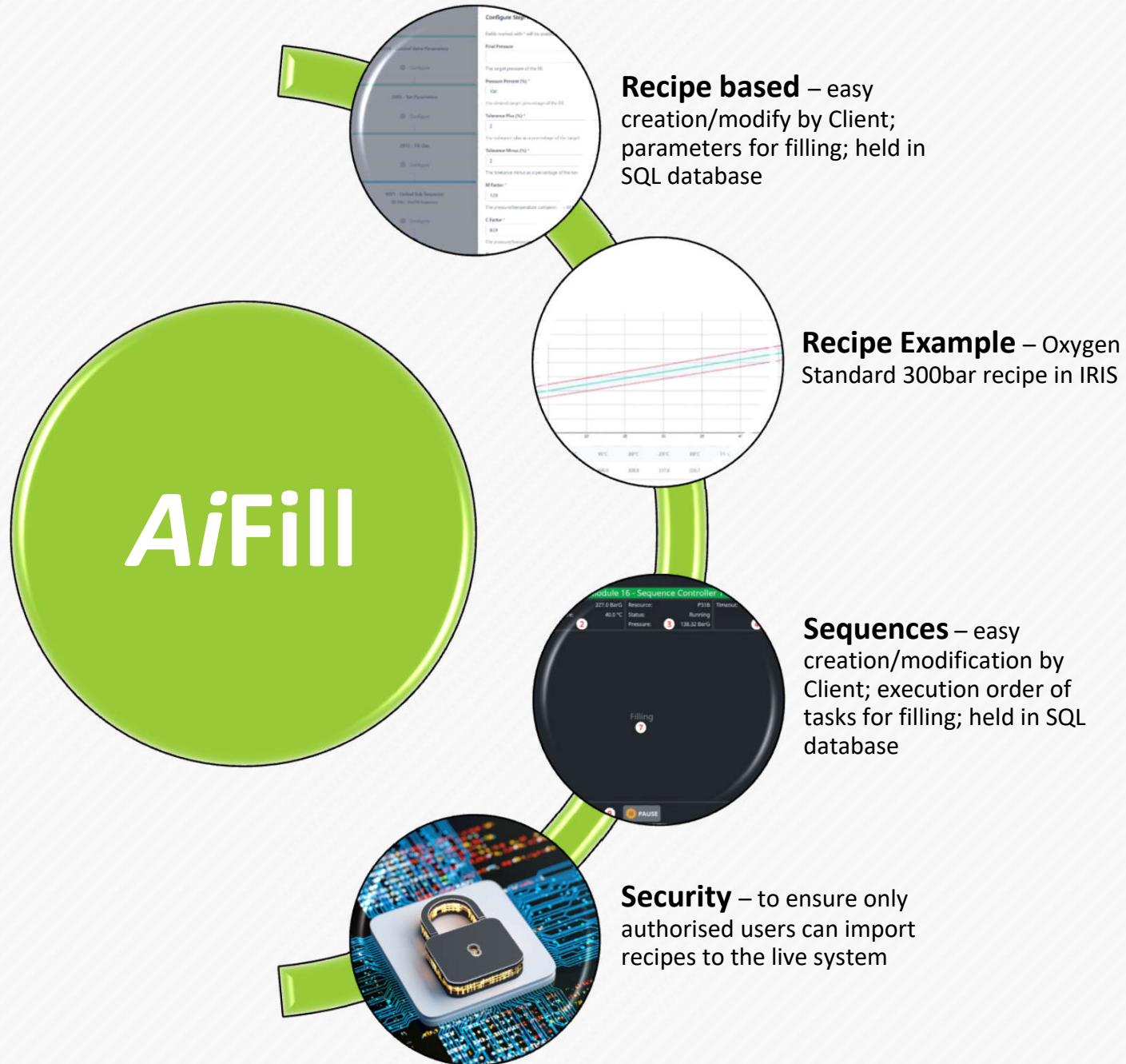
**When** – first commissioning in 2016 (G1)

*An Evolution in Filling Technology*

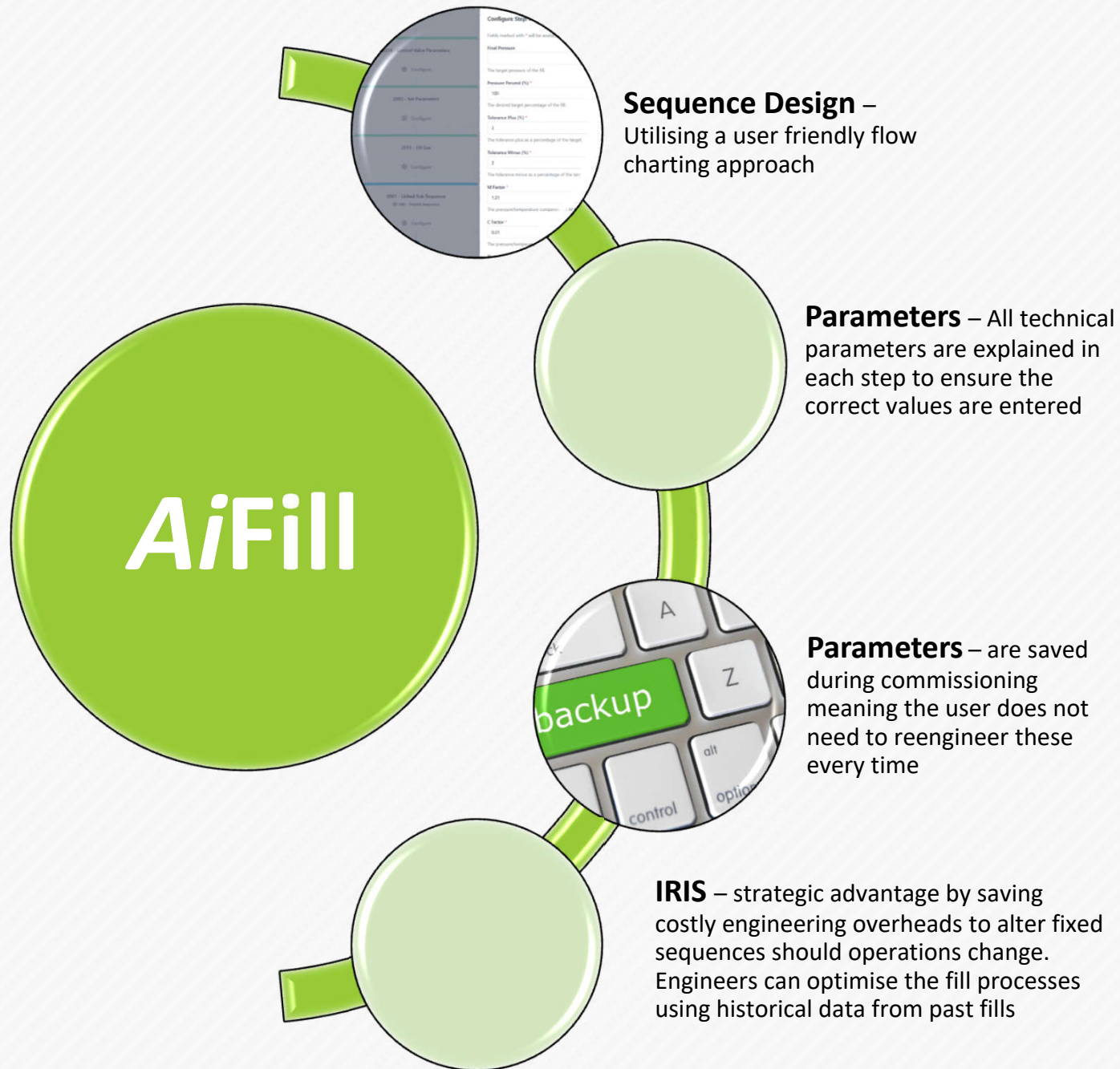


*An Evolution in Filling Technology*

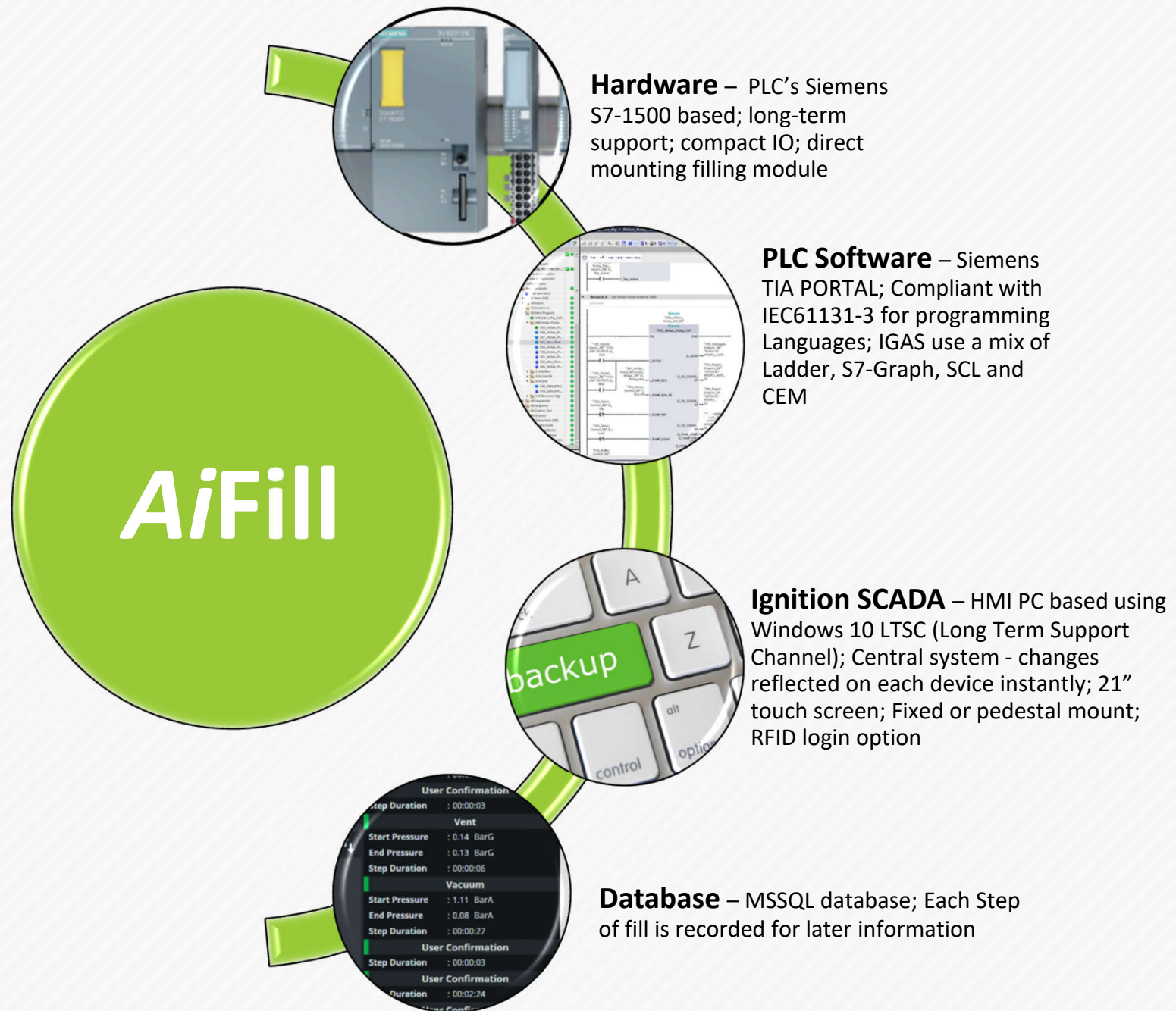




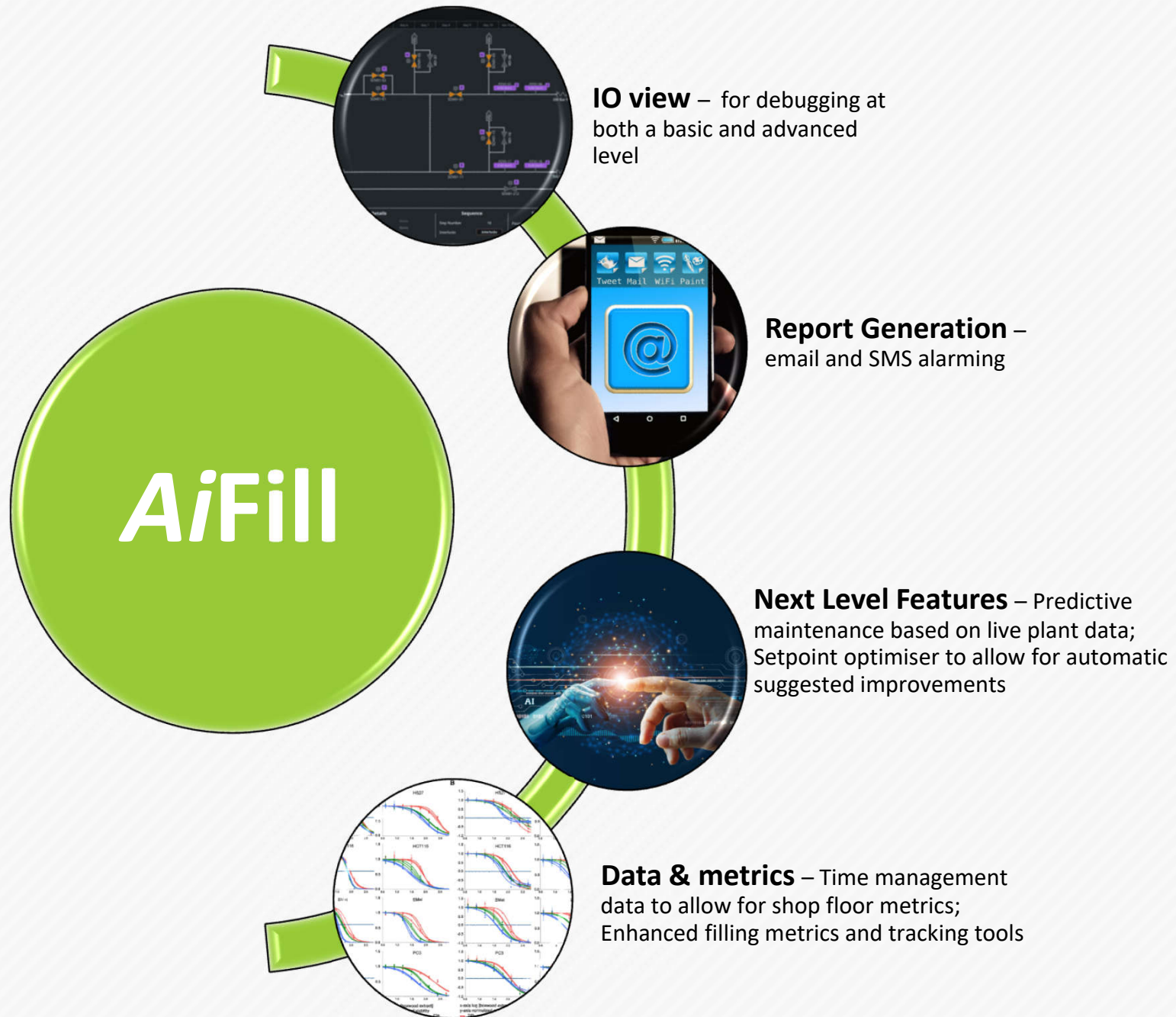
*An Evolution in Filling Technology*



*An Evolution in Filling Technology*



*An Evolution in Filling Technology*



*Not Just an Evolution in Filling Technology,  
THE Evolution in Filling Technology*



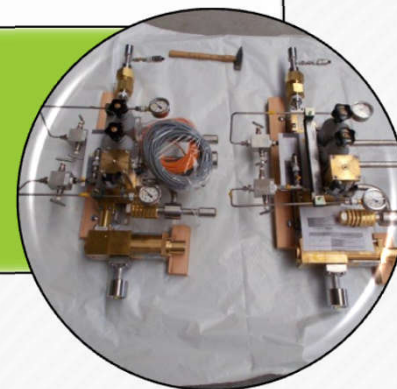
- Dedicated resource
- Offer at project
- Tailored

## Support



- Dedicated resource
- Offered early in project
- Onsite for SAT
- Strategic holding

## Spares





Projects



Cryogenic  
Equipment



Filling  
Equipment



Hoses &  
Connectors



Refrigerant  
Equipment



**IGPH** INDUSTRIAL  
GAS  
PROJECTS  
HOUSE

