

thinkin

for Industry 4.0

www.thinkin.io

Private and Confidential
Thinkinside S.r.l.



«an innovative platform for **real-time monitoring** and control of **assets** and **workforce** in **industrial environments**»



HOW IT WORKS



Track assets and individuals with high accuracy and in real-time

- Assets (forklifts, tools, pallets, trolleys) with **tags**
- Individuals with **specific devices** (bracelets, name badges, smartphones, tablets)

Data processing

- Extract knowledge and KPIs on the execution of industrial processes
- Monitor in real-time specific industrial process KPIs

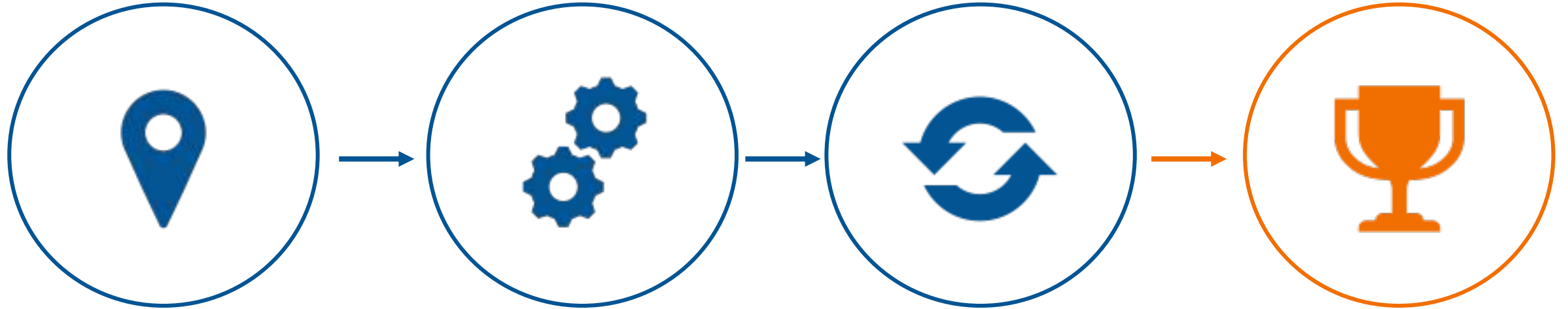
Location-based services and analytics

- Workflow digitisation and management
- Safety practices and procedures
- Risk mitigation
- Real-time monitoring and control of processes



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Use cases



Modelling

Assets utilisation
Industrial processes
workflow tracking
Location-based accounting

Analytics

Workflow analysis
Production performance
Production process
deviations

Optimisation

Assets utilisation
optimisation
Assets predictive and
remote maintenance
Workflow adaptation and
optimal planning

Reduce costs

**Increase
performance and
efficiency**

Boost productivity

Enhance quality



Monitoring

- Real-time tracking of assets
- Search and localisation of assets
- Geo-fence events notification
- Full life-cycle remote asset monitoring

Control

- Location-based workflow management
- Quality control
- Full life-cycle remote asset control
- Shifts, role and group-based management

Real-time process management

Improve workforce coordination

Boost productivity

Increase production cycles



Emergency management support

Emergency musters management

Real-time localisation of workers

Rescue support

Risk prevention

Accidents root cause analysis

Industrial process safety procedures enforcement

Red-zones access monitoring and control

Enhance workers safety

Optimise costs related to safety management

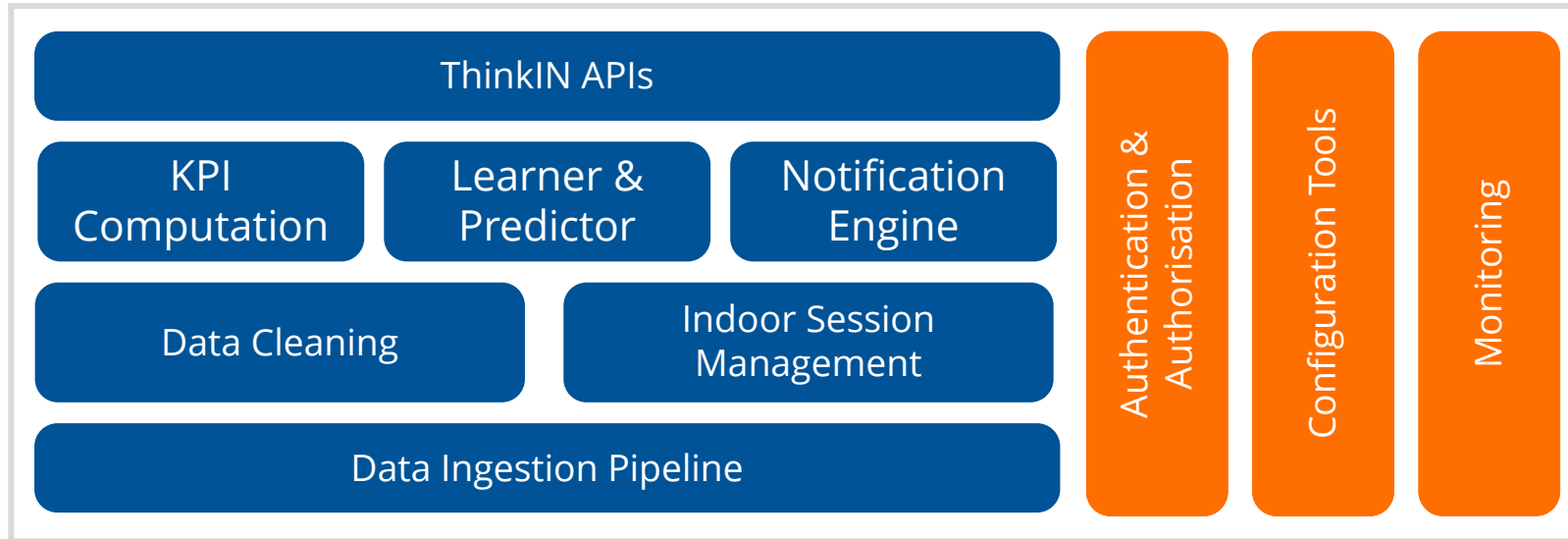
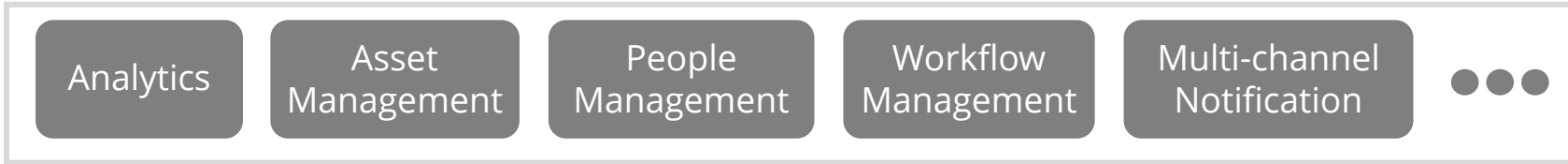
Reduce downtime cycles due to emergency



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The platform

PLATFORM ARCHITECTURE



Assets and People

Key features

- Integration with third-party systems
- Highly scalable architecture
- Redundant architecture and components
- Remote platform monitoring and control
- Web and mobile support


THE DASHBOARD: SHOOP FLOOR GRAPHIC

Real-time

DASHBOARD REALTIME SERVICES SETTINGS ADMIN

Hide tags after inactivity of: Never

Full screen - + ✕ Highlight zones ...



Sintering Farming

Filter zones

17	Sinter 1	Last updated: 2016-10-27 07:29	highlight
15	Sinter 2	Last updated: 2016-10-27 07:29	highlight

Filter visible assets

1071	Tracking tag: 001830ece346	Last seen: 2016-10-27 02:09	highlight
1438	Tracking tag: 001830ece347	Last seen: 2016-10-27 01:13	highlight
1149	Tracking tag: 001830ece633	Last seen: 2016-10-26 10:57	highlight
1094	Tracking tag: 001830ece680	Last seen: 2016-10-25 13:32	highlight
875	Tracking tag: 001830ece70c	Last seen: 2016-10-26 18:23	highlight
1276	Tracking tag: 001830ece74f	Last seen: 2016-10-27 07:21	highlight
1242	Tracking tag: 001830ece926	Last seen: 2016-10-27 06:57	highlight
1462	Tracking tag: 001830ece969	Last seen: 2016-10-27 00:35	highlight

THE DASHBOARD: ASSET INFORMATION

The dashboard displays an 'Assets overview' section with a 'Summary' card showing 24 total assets. A table below lists asset types and their counts, with a breakdown of tracked assets with and without analytics computation. A callout highlights the asset list table, and another callout shows a detailed view of a specific asset.

Type	Count	Tracked with analytics computation	Tracked without analytics computation
Carts	4	2	6
DK Deposit	1	6	6
DK Manual	38	6	23
DK Zonal	2	6	6

Asset List (Callout):

Asset ID	Type	Status	Location	Actions
Asset 1	Asset type test	Highlighted	Factory - 001	View
Asset 2	Asset type test	Highlighted	Factory - 002	View
Asset 3	Asset type test	Highlighted	Factory - 003	View
Asset 4	Asset type test	Highlighted	Factory - 004	View
Asset 5	Asset type test	Highlighted	Factory - 005	View
Asset 6	Asset type test	Highlighted	Factory - 006	View
Asset 7	Asset type test	Highlighted	Factory - 007	View
Asset 8	Asset type test	Highlighted	Factory - 008	View
Asset 9	Asset type test	Highlighted	Factory - 009	View
Asset 10	Asset type test	Highlighted	Factory - 010	View
Asset 11	Asset type test	Highlighted	Factory - 011	View
Asset 12	Asset type test	Highlighted	Factory - 012	View
Asset 13	Asset type test	Highlighted	Factory - 013	View
Asset 14	Asset type test	Highlighted	Factory - 014	View
Asset 15	Asset type test	Highlighted	Factory - 015	View
Asset 16	Asset type test	Highlighted	Factory - 016	View
Asset 17	Asset type test	Highlighted	Factory - 017	View
Asset 18	Asset type test	Highlighted	Factory - 018	View
Asset 19	Asset type test	Highlighted	Factory - 019	View
Asset 20	Asset type test	Highlighted	Factory - 020	View
Asset 21	Asset type test	Highlighted	Factory - 021	View
Asset 22	Asset type test	Highlighted	Factory - 022	View
Asset 23	Asset type test	Highlighted	Factory - 023	View
Asset 24	Asset type test	Highlighted	Factory - 024	View

Asset Detail View (Callout):

Asset ID	Type	Status	Location	Actions
Asset 1	Asset type test	Highlighted	Factory - 001	View

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