



SPARROW INFINITY · INDUSTRYOS®

EHS Software Journey – Maturity & Data Integration

From reactive records to autonomous control – the
IndustryOS® maturity path

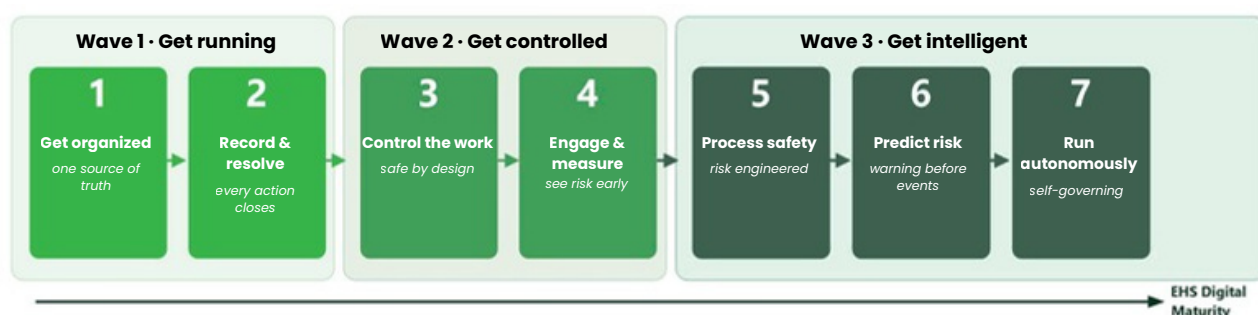
www.infinity.sparrowrms.in

EHS Software Journey

The simple path to EHS digital maturity — what to choose, in order.

This is the short version. It answers one question: where do we start, and what comes next? You climb in seven moves, grouped into three waves. Choose the first, prove it, then choose the next. You only reach the intelligent stages once the earlier ones have created the data they run on.

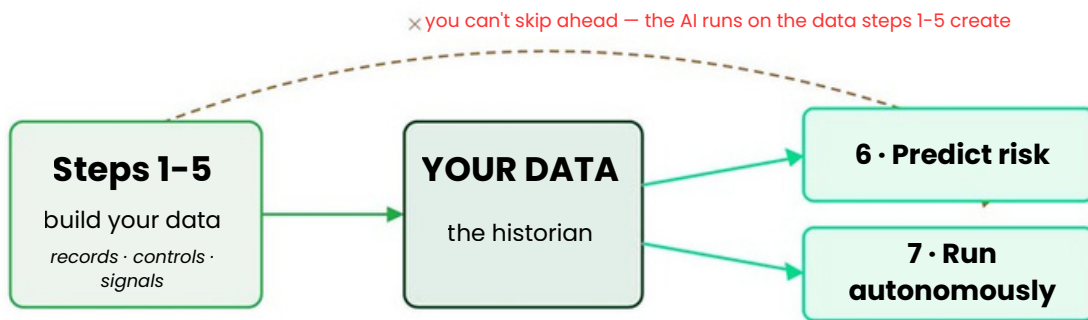
The journey — choose in order



- 1. Get organized (Foundation)** — your assets, documents and data in one place. Start here, always.
- 2. Record & resolve (Capture)** — log every incident, audit and inspection; every action closes. Once your data has a home.
- 3. Control the work (Control)** — permits, isolation, risk and contractors — work is safe before it begins. Once events are captured.
- 4. Engage & measure (Engage)** — frontline reporting and dashboards; you see risk building early. Once work is controlled.
- 5. Engineer process safety (Process)** — hazard studies, change control and asset integrity. Once the basics run.
- 6. Predict risk (Predict)** — AI early warnings drawn from your own data. Once there is enough data to learn from.
- 7. Run autonomously (Autonomous)** — a digital twin that governs safety in real time. The destination.

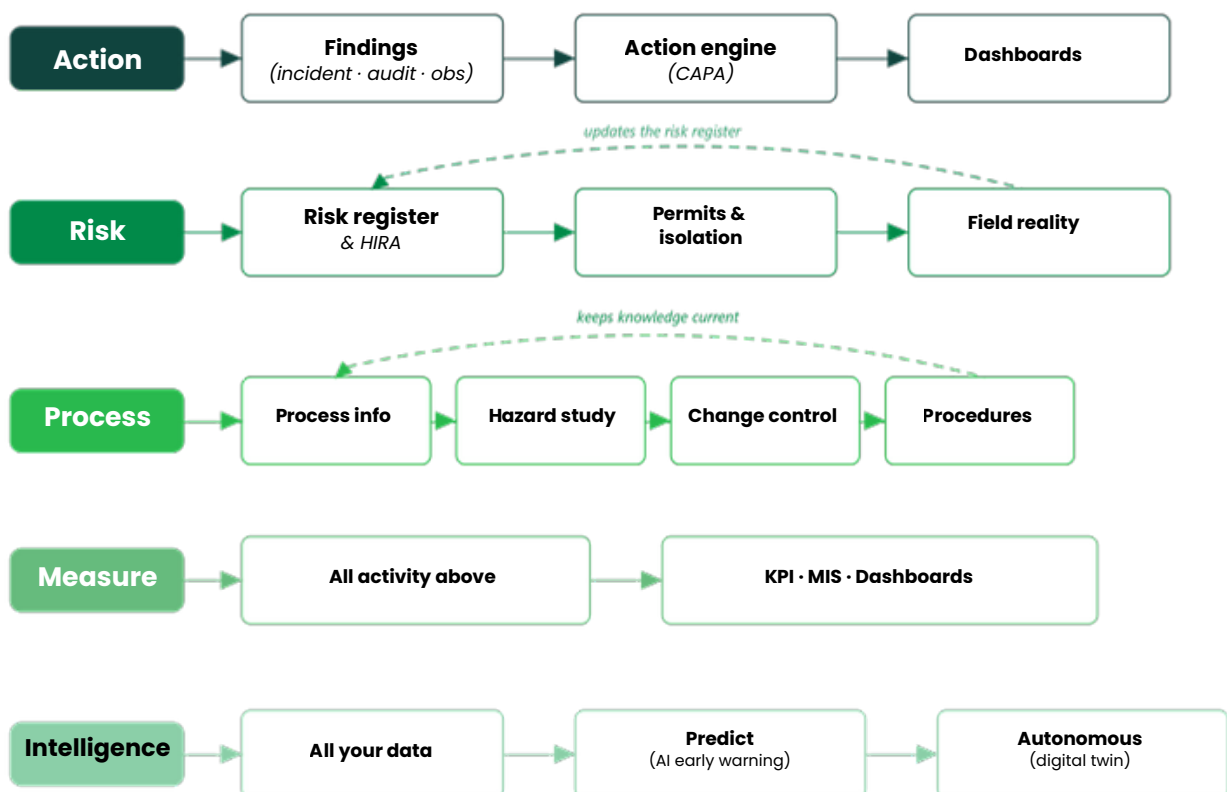
The one rule

You can move flexibly through most of the path – but you cannot skip to steps 6 or 7. The AI runs on the data that steps 1–5 create. Buy the intelligence before the foundation and it has nothing to learn from.



How it all connects – five information highways

The modules are not separate islands. Information flows between them along five simple highways. This is what makes the journey a system rather than a shelf of tools.



Action — every finding — incident, audit, observation, inspection — flows into one action engine, closes there, and shows up on your dashboards.

Risk — your risk assessments drive permits and isolation; what happens in the field flows back and updates the risk.

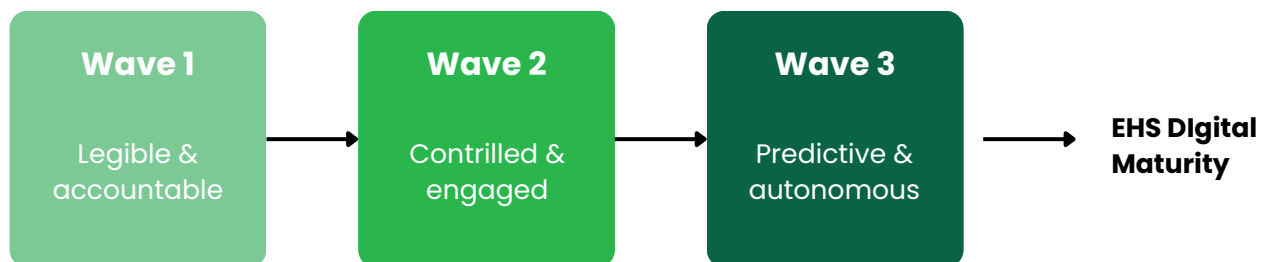
Process — process knowledge feeds hazard studies, which feed change control and procedures — and back to knowledge, so it never goes stale.

Measure — everything above feeds your KPIs, MIS and role-based dashboards.

Intelligence — all of that data feeds the prediction engine, which in turn feeds the autonomous twin.

What you get

Each wave delivers a clear outcome. Value is modest at first — order, accountability, control — and compounds as the system begins to see risk early and, finally, act on it.



Where to begin. Almost every organization starts at step 1 and runs Wave 1 first — get legible, get capturing. From there the path is yours to pace, one earned step at a time, all the way to a safety system that no longer needs anyone to read the dashboard.

The complete IndustryOS® module map

All 58 modules, in the order you deploy them

ID	Module	Pillar	Bundle	Type
Step 1 • Foundation				
25	Document Management &	Technology	—	Core
54	Dynamic Workflow Engine	Technology	—	AI
55	Conversational AI Assistant	Technology	—	AI
57	Integration AI Layer	Technology	—	AI
Step 2 • Capture				
1	Incident Reporting & Investigation	Governance	Capture & CAPA	Core
7	Audit Management	Governance	Capture & CAPA	Core
12	Safety Rounds & Inspection Planner	Governance	Capture & CAPA	Core
18	Auto CAPA Management	Governance	Capture & CAPA	Core
19	Task Planner & Tracking	Governance	—	Core
21	Daily Safety Logs	Governance	—	Core
22	Safety Redbook	Governance	—	Core
8	Compliance Management	Governance	—	Core
20	Training Management	Culture	—	Core
34	Integrated Training Management	Culture	—	Core

Step 3 • Control of work				
5	JSA & HIRA	Engineering	Risk → control	Core
6	Risk Register Management	Engineering	Risk → control	Core
3	Permit to Work (PTW)	Engineering	Risk → control	Core
4	Lockout Tagout (LOTO)	Engineering	Risk → control	Core
39	Confined Space Entry Management	Engineering	Risk → control	Core
13	Fire & Safety Equipment Inspection	Engineering	—	Core
14	Portable Tools Inspection	Engineering	—	Core
15	Chemical Risk Management	Engineering	—	Core
59	SDS & GHS Label Management	Engineering	—	Core
16	Industrial Hygiene Management	Engineering	—	Core
17	OHC Management	Engineering	—	Core
58	Ergonomics Assessment & Management	Engineering	—	Core

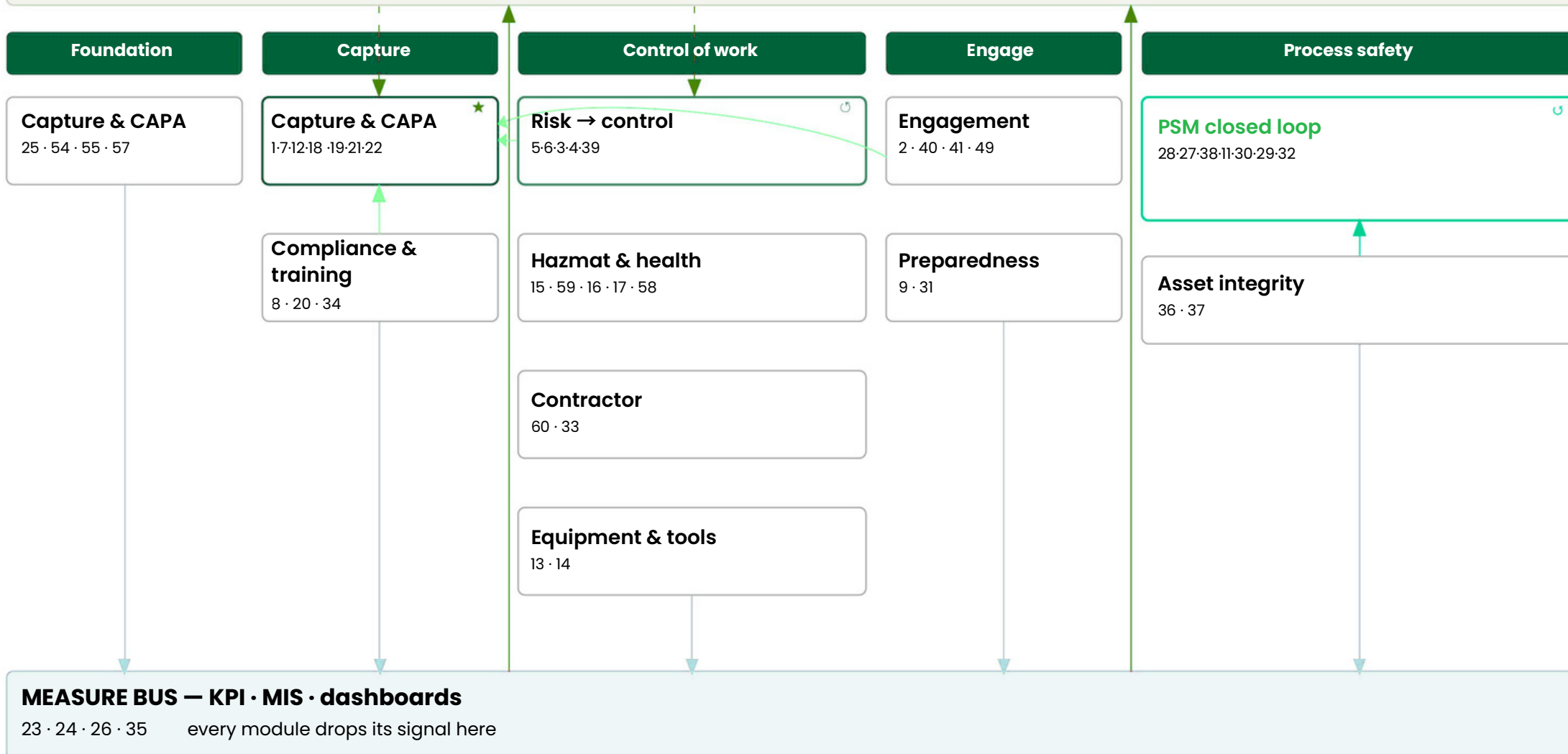
60	Contractor Pre-Qualification	Governance	—	Core
33	Contractor Induction & Management	Governance	—	Core
Step 4 • Engage & measure				
2	Behaviour Based Safety (BBS)	Culture	—	Core
40	Open Hazard Reporting & Observations	Culture	—	Core
41	Toolbox Talks, Alerts & Lessons	Culture	—	Core
49	BBSO AI Engine	Culture	—	AI
9	Mock Drill Record & Compliance	Governance	—	Core
31	Emergency Planning & Response	Governance	—	Core
23	KPI Management	Technology	—	Core
24	MIS	Technology	—	Core
26	Customised Dashboards	Technology	—	Core
35	Individual & Team KPI Tracking	Technology	—	Core

Step 5 • Process safety				
28	Process Safety Information	Engineering	PSM loop	Core
27	Online HAZOP & PHA Tool	Engineering	PSM loop	Core
38	LOPA / SIL / SIS Management	Engineering	PSM loop	Core
11	MOC – CCPS Framework	Engineering	PSM loop	Core
30	MOC – Process Safety	Engineering	PSM loop	Core
29	Pre-Startup Safety Review (PSSR)	Engineering	PSM loop	Core
32	Operating Procedures & SOP	Engineering	PSM loop	Core
36	Mechanical & Asset Integrity	Engineering	—	Core
37	Mechanical & Asset Integrity	Governance	—	Core
Step 6 • Predict				
44	Mechanical & Asset Integrity	Technology	—	AI
45	Mechanical & Asset Integrity	Technology	—	AI
46	Mechanical & Asset Integrity	Technology	—	AI

47	AI CAPA Engine	Technology	—	AI
48	AI Audit Intelligence	Technology	—	AI
50	AI KPI Intelligence	Technology	—	AI
51	Predictive Risk Intelligence	Technology	—	AI
53	Compliance AI Engine	Technology	—	AI
42	AI-Visual Intelligence Engine	Technology	—	AI
Step 7 • Autonomous				
52	Digital Twin Intelligence	Technology	—	AI
43	Dynamic Permit-to-Work AI	Technology	—	AI
Parked • Environment (GroundESG® track)				
10	Aspect Impact Assessment	Environment	—	Core
56	ESG AI Intelligence	Environment	—	AI

INTELLIGENCE LAYER — AI (consuming)

Predict 44·45·46·47·48·50·51·53·42 Autonomous 52·43



— Action — Risk — Process — Measure — Intelligence ★ hub ↻ loop ---- AI feedback



sparrow



www.infinity.sparrowrms.in