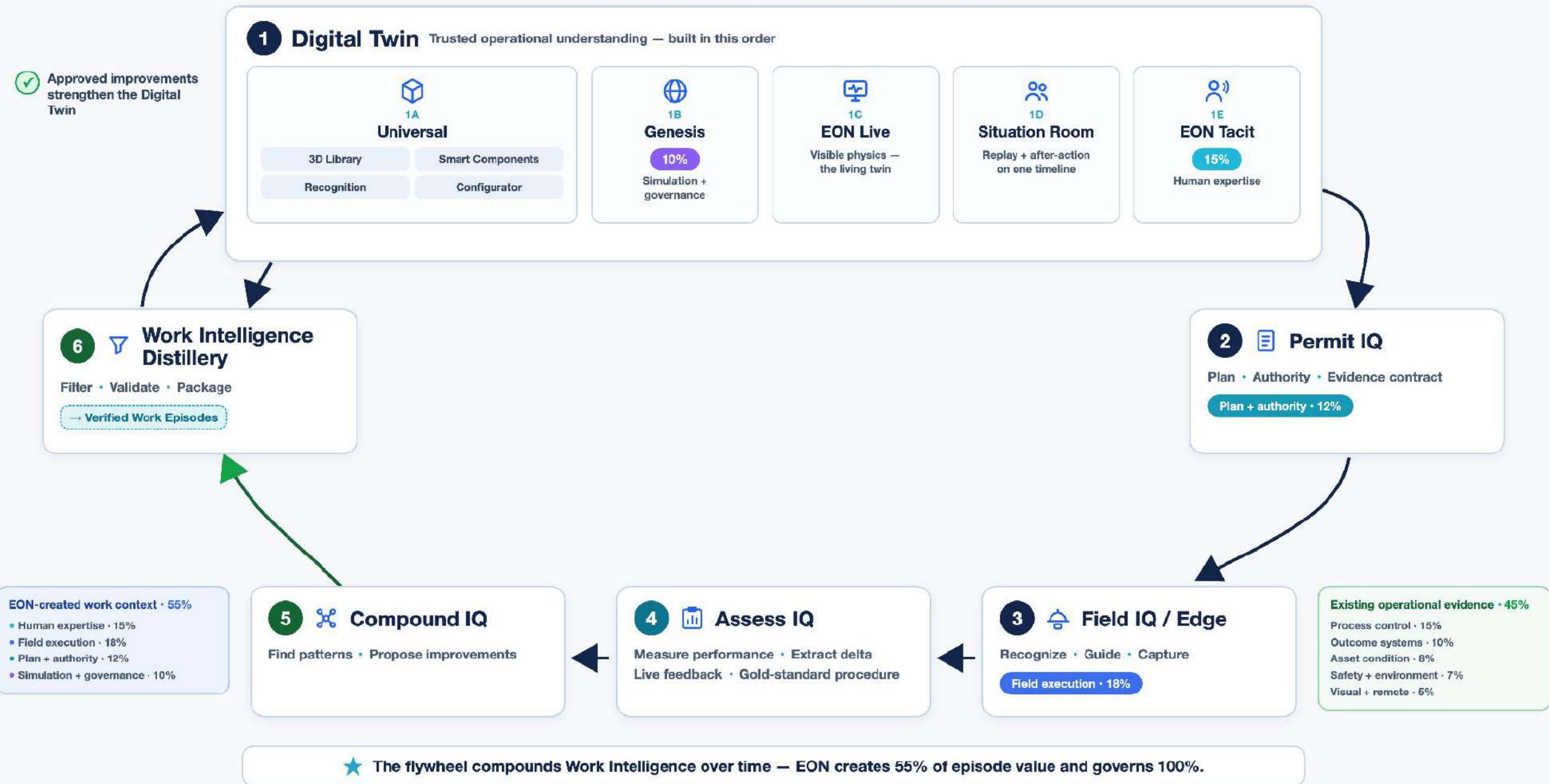


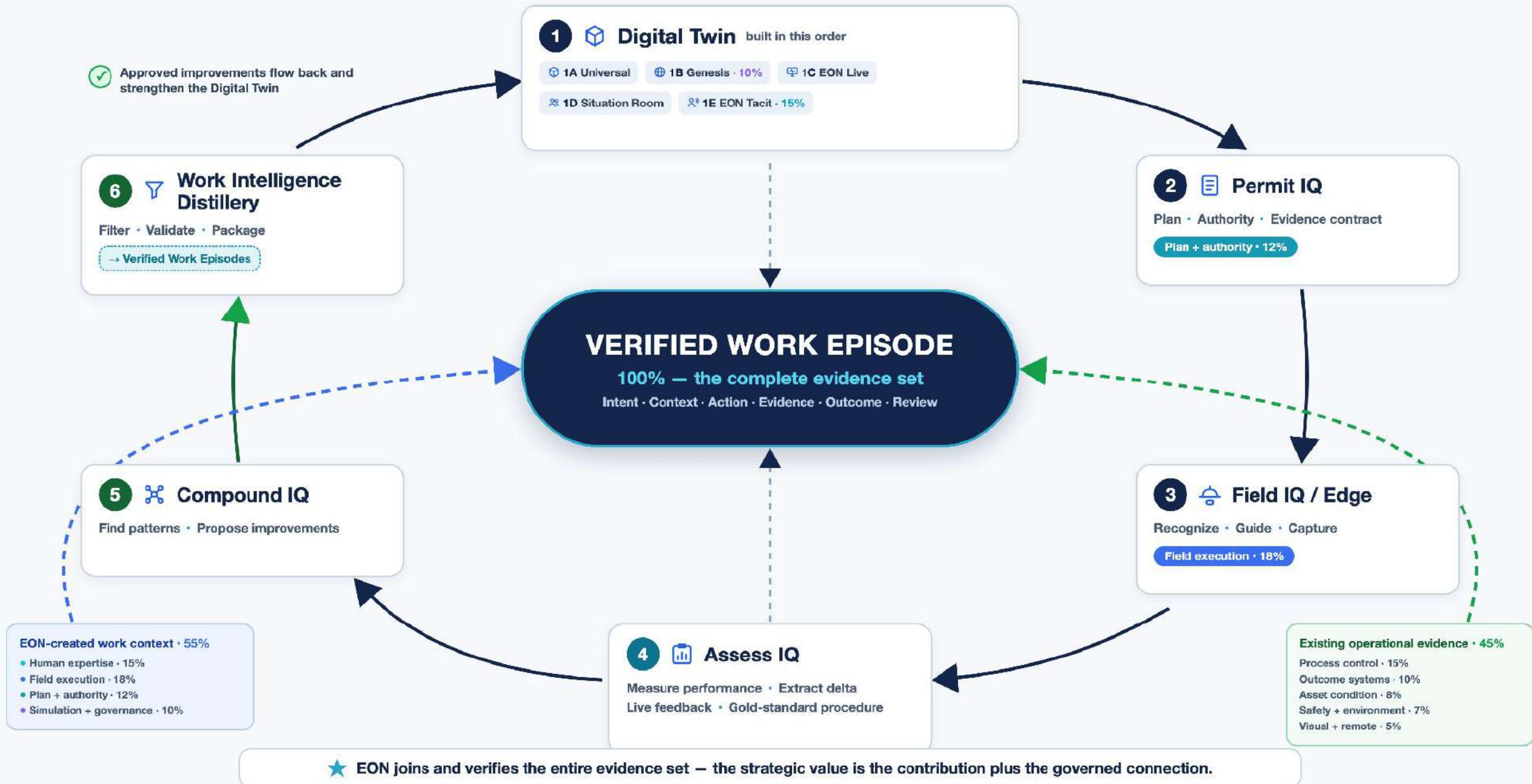
The EON Work Intelligence Flywheel

From Digital Twin to Field Learning and Back



The Verified Work Episode at the Center

Six stations build it — EON creates 55% of the evidence, joins the other 45%, and governs 100%



The Facility Already Has a Nervous System

Oil & gas is densely instrumented. This is the 45% of a complete work record that already exists — and it is genuinely valuable.



15%

Process control

SCADA · DCS · PLC · historian —
pressure, flow, alarms, trends



10%

Outcome systems

Production · quality · downtime ·
CMMS work orders



8%

Asset condition

Vibration · acoustic · corrosion · NDT



7%

Safety + environment

Gas · fire · methane · weather ·
wearables



5%

Visual + remote

CCTV · thermal · OGI · drones · robots

= 45% of a complete Verified Work Episode — powerful, necessary, already paid for.

But it records the consequence of work, not the cause. Despite this density, in 2024 the industry still recorded 32 fatalities and the average offshore facility still lost ~\$38M to unplanned downtime.

What it sees well

Pump stopped; pressure and flow changed; valves changed state; alarms appeared; standby equipment carried the process; the asset later stabilized.

What it cannot prove

Correct physical asset and label; isolation and trapped-pressure check; damage found; part and torque used; procedure revision; the worker's judgment; safeguards restored.

Where Incidents Are Born: the Missing 55%

The half no system keeps today — what was planned, judged and physically done. This is where problems begin, and where prevention is still possible.



18%

Field execution

Field IQ / Edge

What physically happened at the equipment — observations, actions, exceptions, photos, readings, even offline.



15%

Human expertise

EON Tacit

The cues an expert notices, the option they reject, the moment they stop — judgment that prevents or causes an incident.



12%

Plan + authority

Permit IQ

The authorized job, hazards, isolations, roles, limits and the evidence the work must produce.



10%

Sim + governance

Genesis

The approved digital-twin state and the rules under which a lesson may be trusted and reused.

You cannot prevent what you cannot see — and today this 55% is invisible.

>70%

of oil & gas accidents trace to **human and organizational factors** — judgment, procedures, job-safety analysis and permit-to-work — not to the process signals the control room watches. The decisive evidence lives almost entirely in the 55%.

And it **evaporates the moment a job closes**: the expert retires, the adaptation is never written down, the near-miss protects no one.

Where the 55 / 45 Comes From

The same split told two ways — the plain-English version first, then the technical basis.



■ 55% EON creates
■ 45% already there

IN PLAIN TERMS

Think of every job as a story with a beginning, a middle and an end. Today your systems mostly record the end — what the machines showed after something happened. That is the **45%** you already have. The **55%** is the beginning and middle — what was planned, what the expert judged, and what was actually done in the field. That is where problems are born, and it is the half no system keeps today. EON captures the whole story.

THE TECHNICAL BASIS

- 1 Start from a complete work record.** List every source of evidence needed to reconstruct one job — from authorized intent to verified outcome.
- 2 Weight by decision value.** Score each source by how much it proves the job succeeded and why — most incidents start in human & organizational factors, so the work-context half outweighs the sensor half.
- 3 Allocate to 100.** The EON-created cause half sums to 55; the existing consequence half to 45. Order each half by where the outcome is decided.

55% EON creates

The cause half — where incidents are born

45% already exists

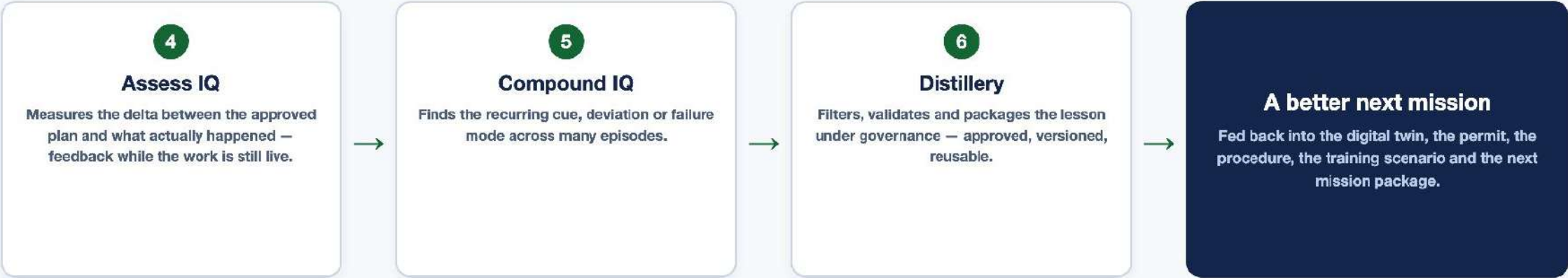
The consequence half — recorded after



Illustrative weighting, not audited statistics. The point is not the exact number — it is that the half EON creates is the half where prevention is still possible, and today it is the half no system keeps.

How Prevention Compounds

Capture alone prevents nothing. The flywheel turns every completed job into a safer next one.



Each approved lesson updates the twin · the permit · the procedure · the training · the next mission package.



THE COMPOUNDING EFFECT

Each turn of the wheel, the next worker arrives already knowing the cue that preceded last year's near-miss. Safety stops being a poster and becomes a property of a system that improves every cycle.

The Economics: What the Loss Is Worth

Every day of inaction has a price — and most of the recoverable loss lives in the 55% no one is capturing.

\$38M

average offshore facility, lost per year to
unplanned downtime (worst > \$88M)

Kimberlite

~\$104K

that same loss, expressed per day of the
year

$\$38M \div 365$

~36%

downtime reduction a data-driven
approach already achieves

Kimberlite

~\$13.7M

recoverable per year on an average facility
(~\$37.5K/day)

36% of \$38M

The meter is always running

~\$104,000 lost / day

Recoverable, starting now

~\$37,500 / day

Every month you wait

~\$1.1M gone

The 45% optimization captures some of this. The untapped prize is the 55%.

More than 70% of incidents originate in the cause half — so the reducible loss lives exactly where prevention lives, and where no system is looking today.

THE ROI LOGIC

A pilot that removes even one day of downtime a month returns more than its own cost — the recoverable loss per day (~\$37.5K) dwarfs the price of getting started.

AND THE LOSS YOU CAN'T PRICE

32 industry fatalities in 2024, most originating in the 55%. Prevention here is measured in dollars and in people who go home.

What It Prevents

Moving safety upstream — to where incidents are born — changes what every job can be expected to deliver.



Fewer fatalities & serious incidents

Catch the human, procedural and authority conditions that cause most incidents — before they combine.

Attacks the >70% of incidents that originate in the 55%



Fewer interruptions, lower downtime cost

Prove physical work was done right the first time — cutting repeat visits, wrong-asset errors and ambiguous closeouts.

~\$37,500/day of recoverable loss is in reach



Expertise that stays

The retiring expert's judgment captured, verified and reusable — instead of walking out the door.

The 15% human-expertise half, preserved



Faster, more confident execution

The crew arrives with asset context, evidence requirements and relevant experience already in hand.

Fewer repeat visits & first-pass failures



A twin that gets smarter every cycle

Not only what the asset is, but how work on it actually succeeds — a compounding operational memory.

Each episode raises the value of the next

The benefit, in one line

Prevention priced in dollars and in lives — and it compounds, so the return grows with every job.

Removing even a fraction of the 55% loss dwarfs the cost of the program.

The question is not whether to buy more software — it is how much of the reducible loss you want to remove, and how fast.

You Don't Need the Whole Cake

Start with the foundation, then eat the 55% one phase at a time — cheapest and highest-return first.

PHASE 1 · FOUNDATION

Genesis first, Universal to scale

Genesis 10%

The twin's "what good looks like" — simulation + governance. The best place to start, assuming you have models or facilities.

Universal enabler

Turns twin-building from manual / semi-manual into repeatable. Without it, every later phase is hand-built and won't scale.

Stands up the digital twin

PHASE 2 · LOW EFFORT, HIGH RETURN

Tacit + Permit

EON Tacit 15%

Mostly structured expert interviews — aided by EON synthetic data, and it feeds Situation Room. The best bang-for-buck in the whole plan.

Permit IQ 12%

Digitizes plan + authority. A painkiller, not a vitamin — crews already suffer permit and form-filling friction.

+27% of the 55%, at low effort

PHASE 3 · THE BIG BLOCK

Field execution

Field IQ / Edge 18%

Live field-execution capture — the single largest slice of the 55%, connecting to EON Live. Higher effort, so start with a thin single-crew Edge pilot.

Assess · Compound · Distillery loop

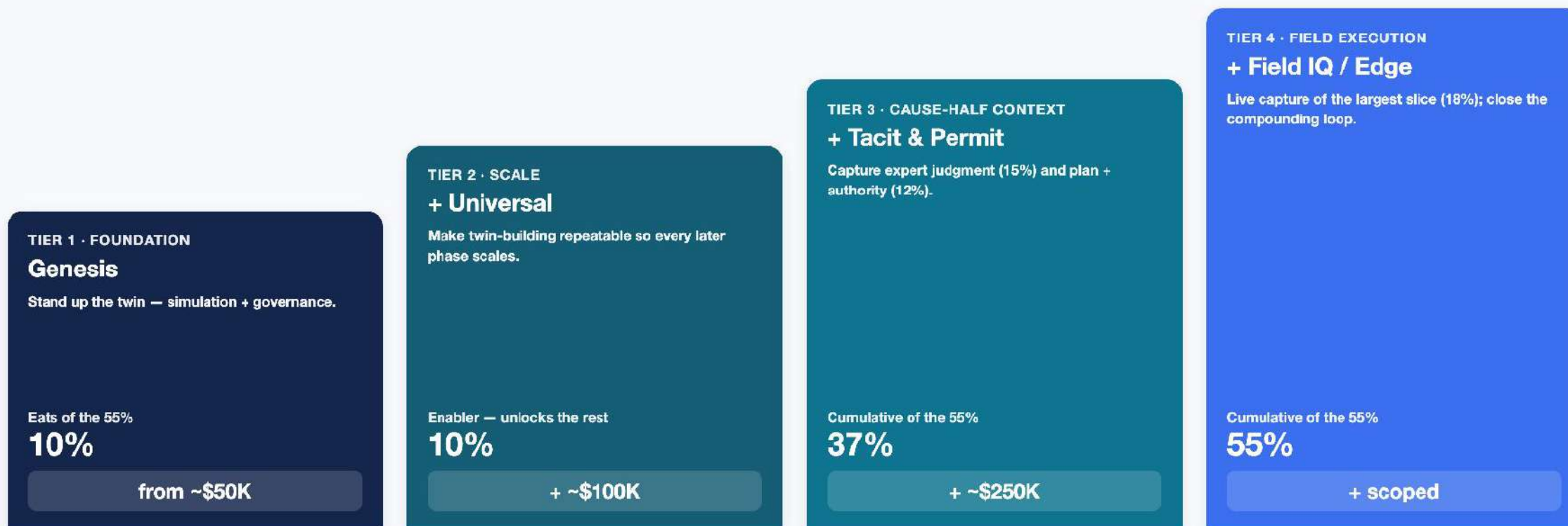
Close and compound the wheel — every completed job now makes the next one safer.

+18% → the full cause half captured

Front-load 27 of the 55 points at low effort before touching anything hard — wins are felt before cost is.

A Stacked Pilot — Prove It One Phase at a Time

Start small and expand as it proves out. Each tier "eats" more of the 55% — and each stacks on the one before.



~\$37.5K/day

is the recoverable loss on an average facility. Against that meter, each tier pays for itself in days, not quarters — and you only advance to the next once the last one has proven out. Start with the foundation, or bundle straight through Tier 3.