Moderne

Backpatching at Industry Scale: FINOS OSERA and Moderne

Shared fixes, applied deterministically across the estate

November 2026

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Backpatching matters because vulnerabilities arrive faster than you can upgrade.

FINDING A SERIOUS VULNERABILITY

Before
Expert effort



Now
AI & Automated scanning



MOVING AN ESTATE TO A NEW MAJOR VERSION

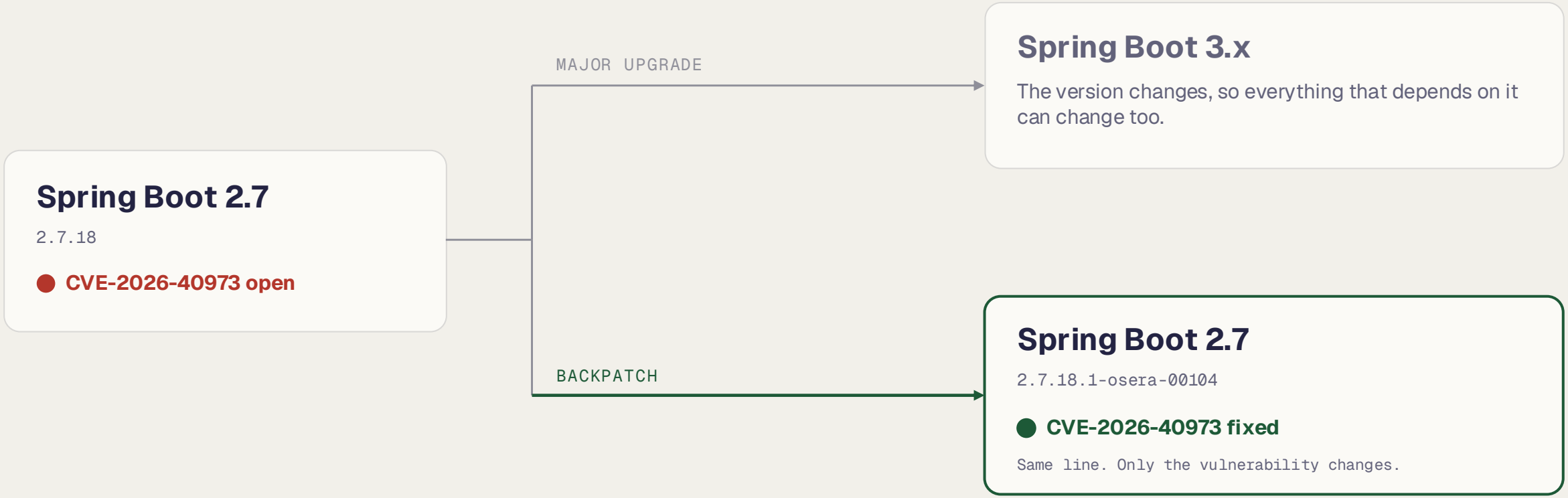
Before
One Repo at a time. Across thousands of repos



Now
One Repo at a time. Across thousands of repos



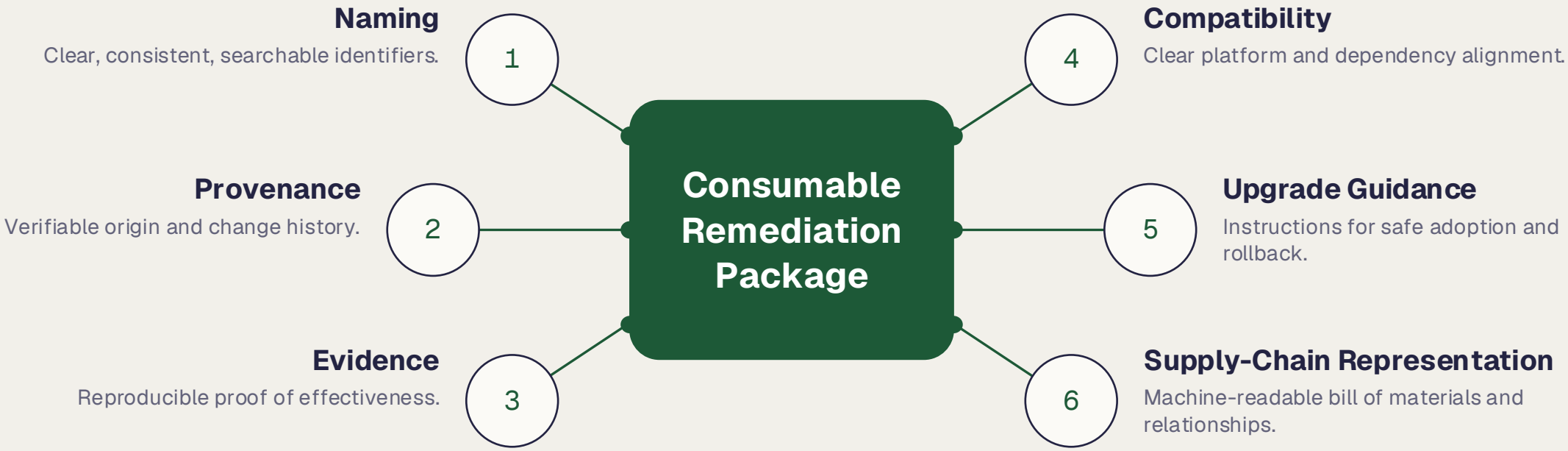
A backpatch matters because it fixes the version you already run.



Source: OSERA OpenVEX feed, feed.finos.org, November 2, 2026.

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Our goal is to standardize six things so practitioners can roll fixes into production at scale.

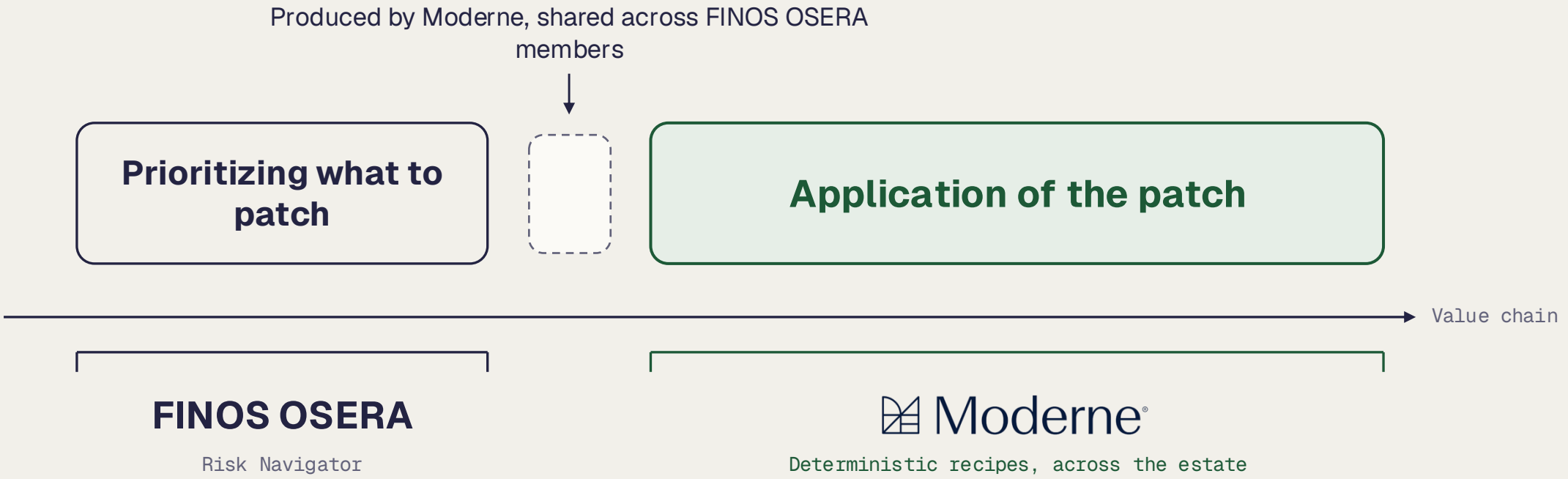


A fix is not truly fixed until it can be rolled into production safely and repeatedly.

Key message: Consistency turns patches into scalable operational outcomes.

For FINOS OSERA and Moderne, the hard part is distribution, not production.

Producing the patch is a narrow slice of the value chain. FINOS OSERA shares it across members, so the larger work is applying each fix.



OSERA's four-step flow was validated end-to-end by three FINOS member banks.

Publish

Patched artifact, +backpatch.NNN version suffix.

VEX planned for production wave.

Distribute

Public source: finos-osera GitHub org

Binaries: OSERA member-only Maven repo

Mirror

Corporate proxy mirrors OSERA repo

Existing scanners & CI unchanged.

Apply

OpenRewrite recipe sweeps build files

Direct + transitive pins updated

FINOS governs. Banks set priorities. Moderne produces the patches with deterministic infrastructure. Banks share one fix.

Sources: osera.finos.org, November 2026; Linux Foundation release, June 26, 2026.

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OSERA already has fixes you can use today.

79

Libraries with fixes

Packages with at least one fixed CVE

FEATURED JAVA LINES

Spring Boot	2.7
Spring Framework	5.3
Log4j	1.2 2.17 2.24
Jackson	2.13 2.15 2.19

Source is public. Built releases are for OSERA members.

Sources: osera.finos.org and feed.finos.org, November 2, 2026.

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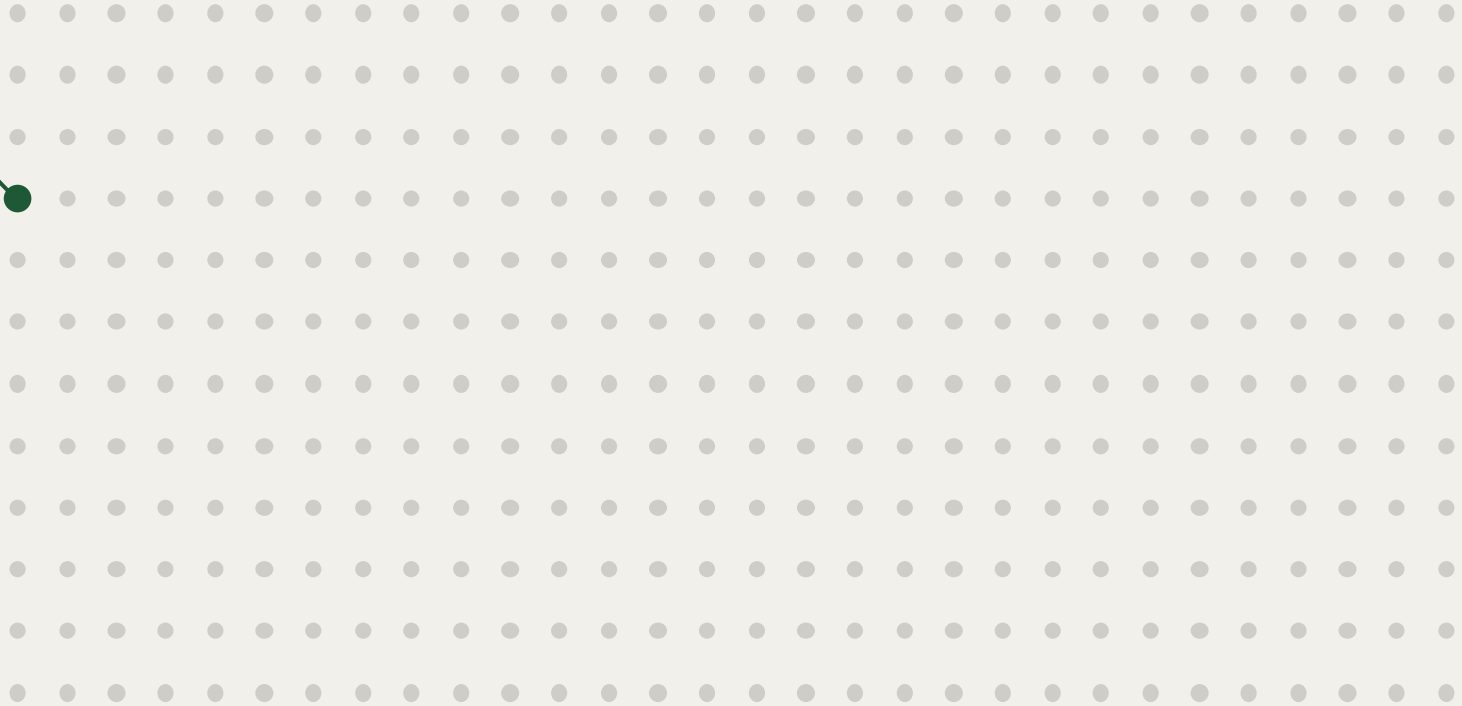
Publishing the fix is only halfway to reaching your code.

PUBLISHED

One fix in the repository

spring-boot 2.7.18.1-osera-00104

YOUR ESTATE



WHAT A BUYER STILL HAS TO ANSWER

Which repositories are affected?

Will each one change the same way?

Can I show it landed everywhere?

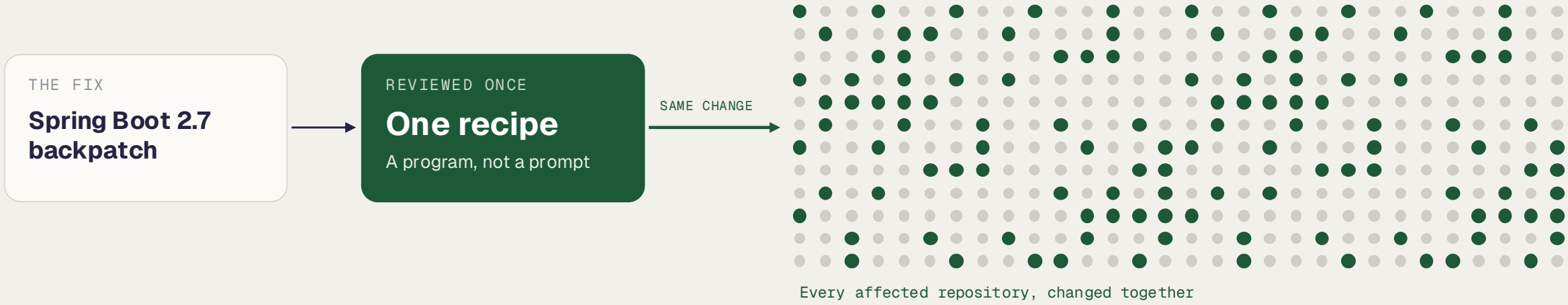
Tens of thousands of repositories. The fix has reached none of them yet.

Illustrative field.

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Your code gets one deterministic fix across the estate.

Finding flaws is no longer the hard part. The hard part is reliable fixes for exact versions, deployed across thousands of repositories.



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Once the fix reaches your code, you can prove it, repository by repository.

APPLIED

One recipe, reviewed once

A record of every repository the recipe changed across the estate.

FEED

OpenVEX and CycloneDX

Machine-readable statements that this version fixes this CVE.

SCANNER

Your existing tools

Recognize the backpatched version as fixed, with no new pipeline work.



AUDIT

Evidence, not estimates

Shows which applications, dependency paths and artifacts change.

A deterministic change is the same change everywhere, so one review stands for the whole estate.

Sources: OSERA FEED-001 and APP-001, standards.osera.finos.org; Linux Foundation release, June 26, 2026.

Moderne

It comes together when you find once, fix once and distribute everywhere.

OSERA



Publishes the patch.

Moderne Recipes



Applies it.

Moderne Platform



Distributes it.