Utilize SAP Build Code For Building Faster And More Flexible Solutions

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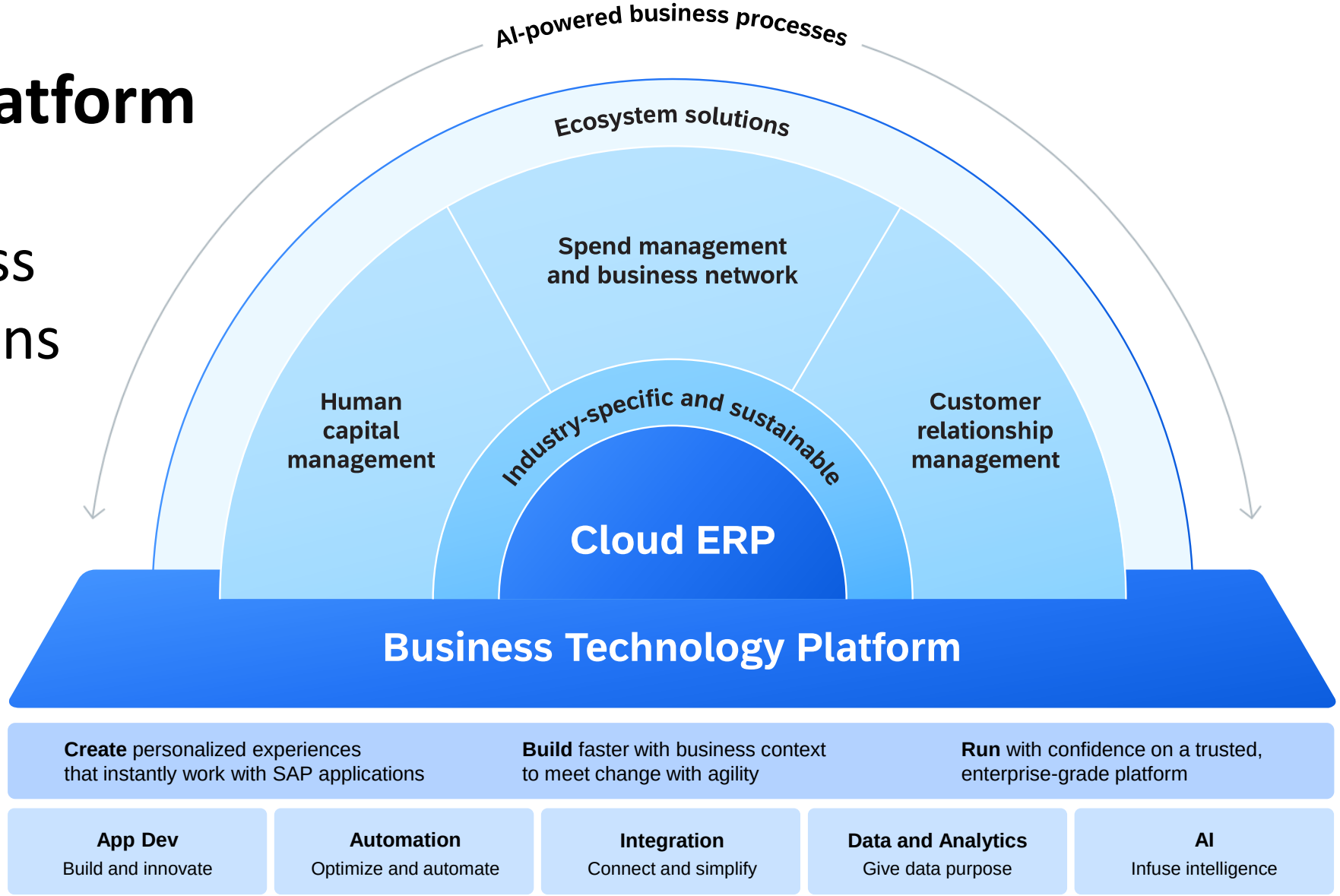
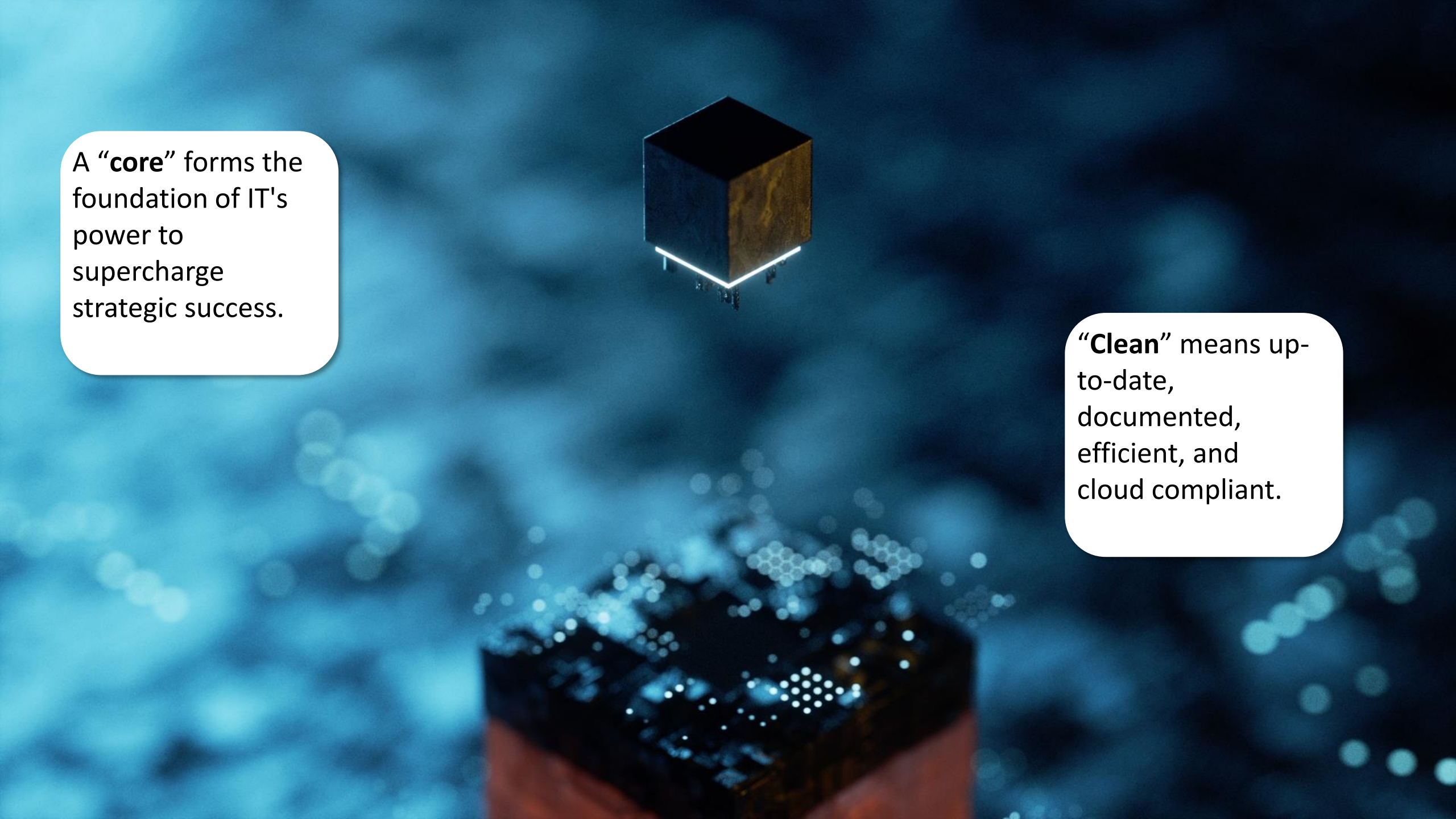
SAP Business Technology Platform

Unleash digital innovation across business functions




A “**core**” forms the foundation of IT's power to supercharge strategic success.
“**Clean**” means up-to-date, documented, efficient, and cloud compliant.

A clean core makes it possible to adapt the system to changing business requirements.

Be agile

. . . To speed up business processes and adaptability

Leverage innovations

. . . To simplify the process of adapting to updates and upgrades

Reduce effort on extensions

. . . When upgrading and testing

Use efficient and secure operations

. . . To contribute to an efficient, secure operational environment

Reduce total cost of ownership

. . . For maintenance and operations

Turn data into value

. . . To access reliable forecasts and precise predictions

Software stack

Processes

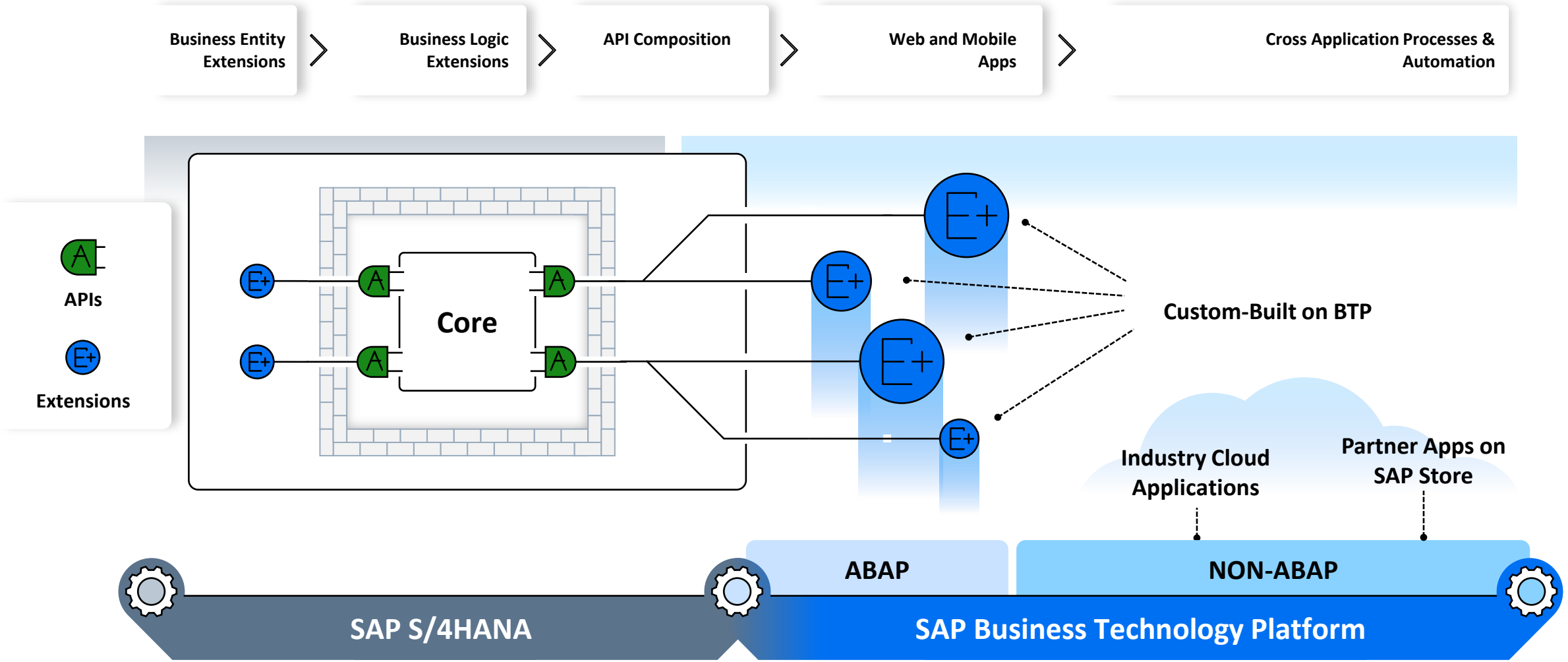
Data

Extensibility

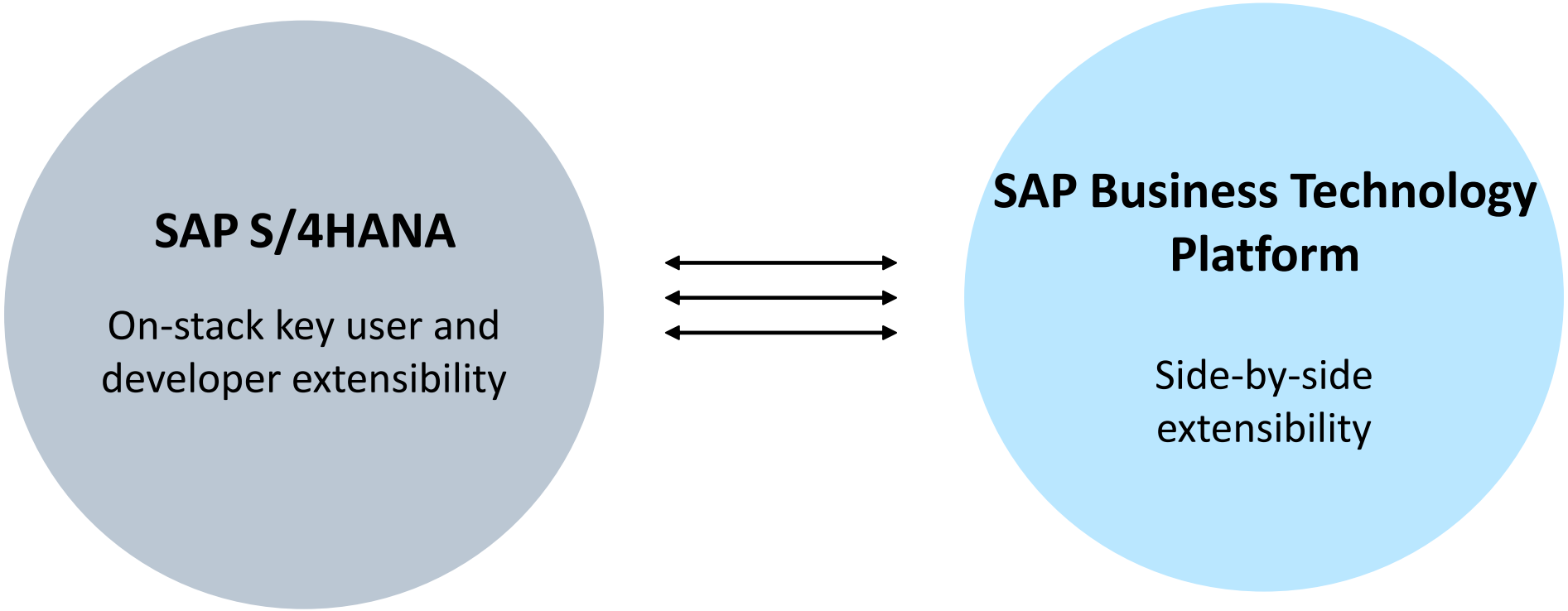
Integrations

Operations

The concept of a clean core is the essential key to boundless extensibility



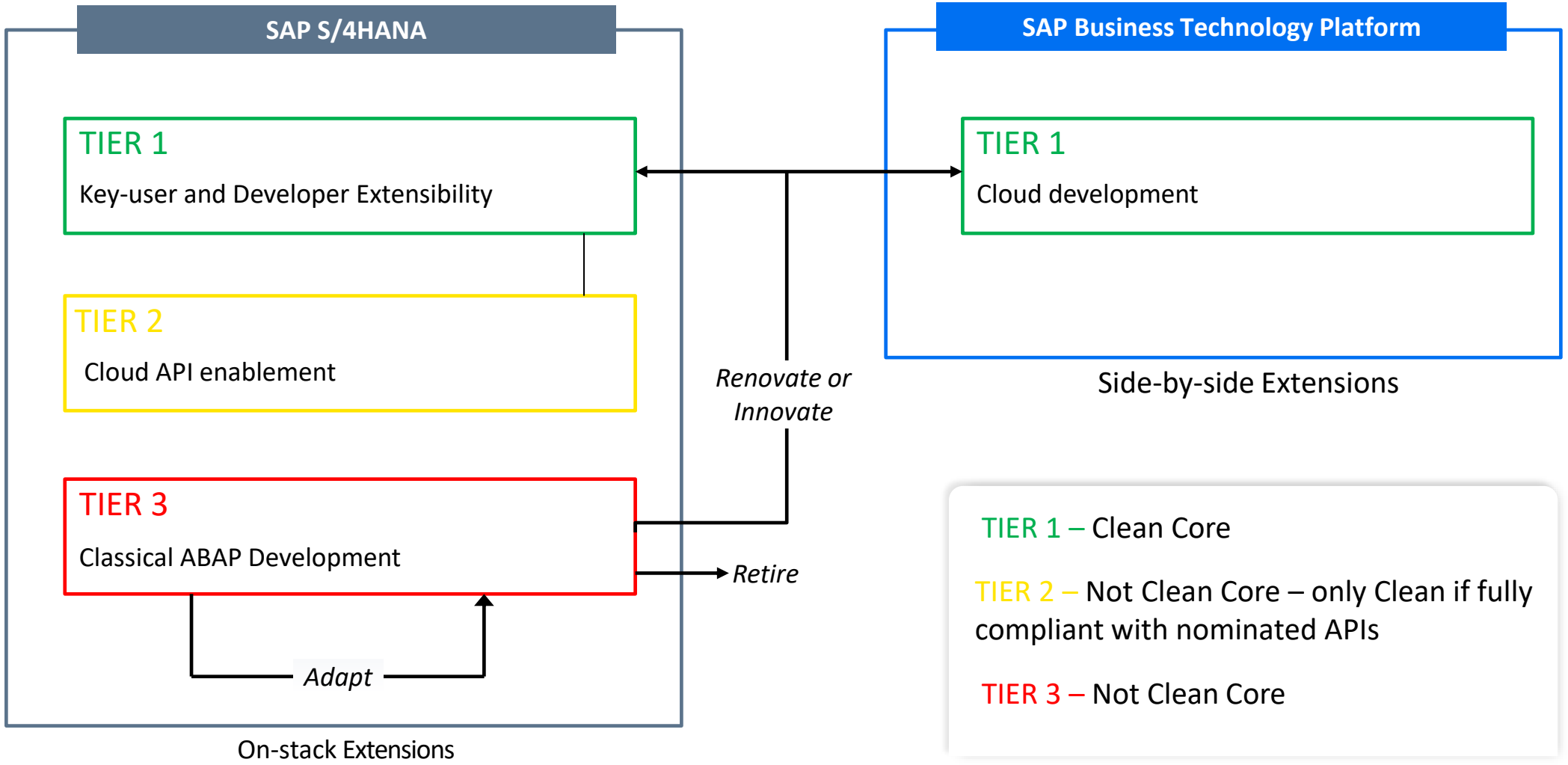
Build cloud-ready architectures of your extensions in a clean core fashion



Not clean core

Classic extensibility with ABAP development tools

The three-tier extensibility model presents a practical and efficient path to a cleaner core



TIER 1 – Clean Core

TIER 2 – Not Clean Core – only Clean if fully compliant with nominated APIs

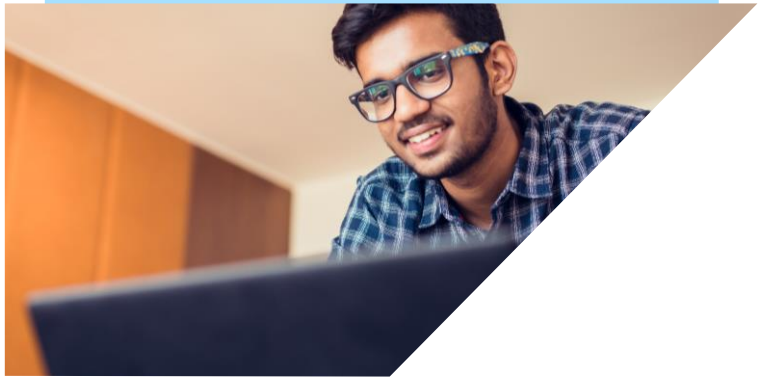
TIER 3 – Not Clean Core

Extensibility with SAP Build Code

SAP Build Code

AI code generation with Joule copilot, optimized for Java and JavaScript application development

Build rapidly with AI code generation



- Generative AI–powered app development
- Turnkey environment for coding, testing, integrations, and application lifecycle management
- Guided experiences and prebuilt templates to quickly build full-stack, back-end, and mobile apps

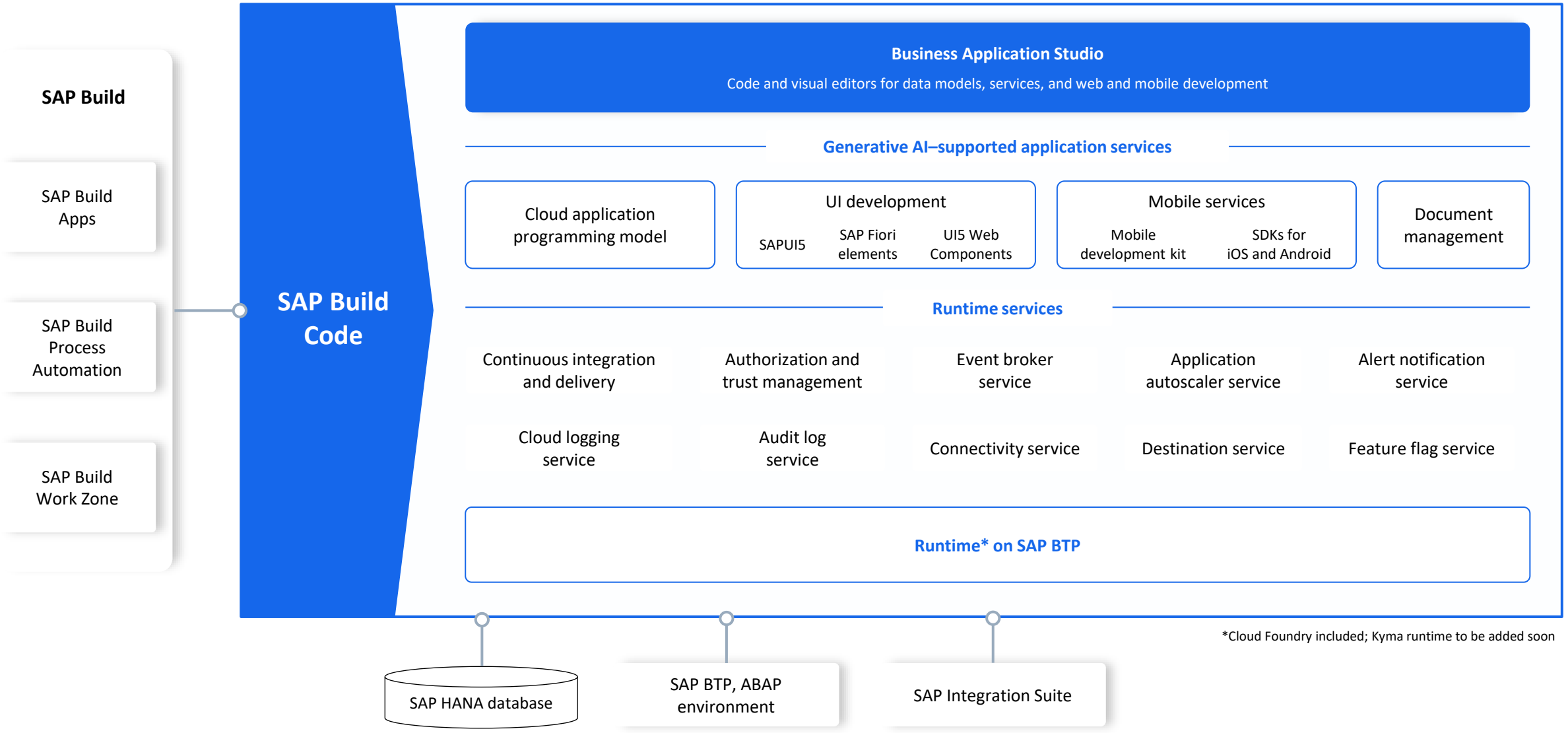
Gain tailored functionality for SAP solution development

- Prebuilt integration with SAP and third-party solutions
- Trusted, enhanced security for authentication, authorization, and data protection
- Extensibility for SAP S/4HANA and other solutions

Enhance fusion development

- More-secure collaboration between professional and citizen developers
- App composability across SAP Build and ABAP-developed solutions
- Unified governance and simplified application lifecycle management

SAP Build Code: What you need to follow, best practices of SAP



*Cloud Foundry included; Kyma runtime to be added soon

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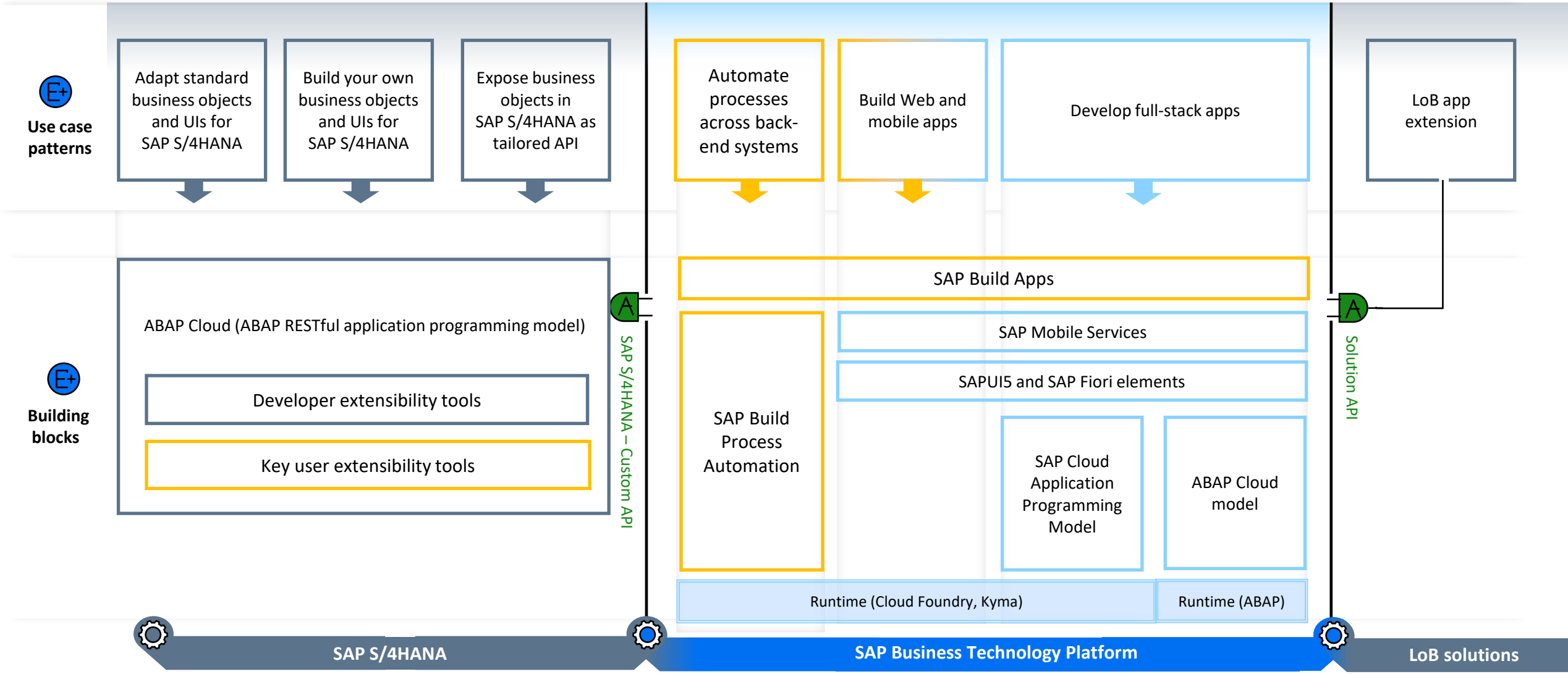
SAP offers extensibility of different styles to fit to our customer's needs



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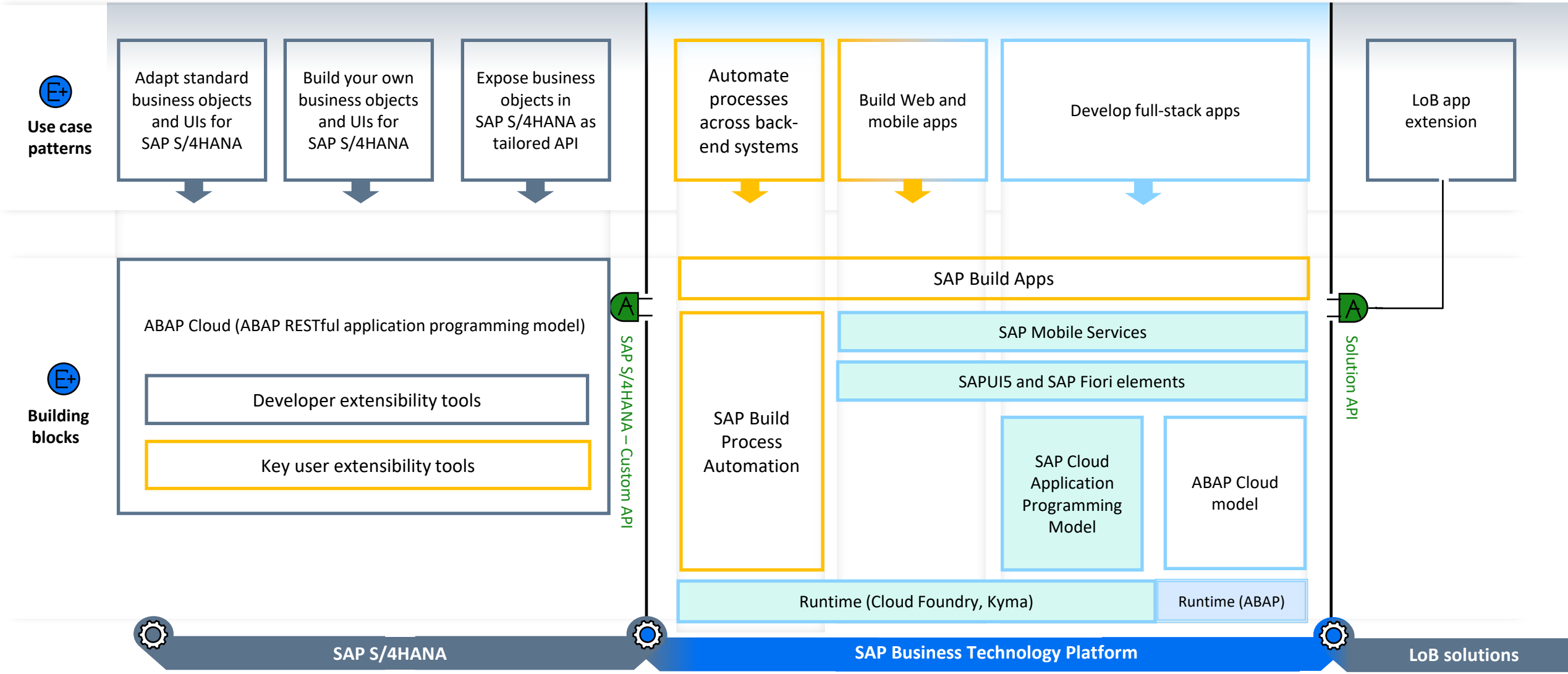
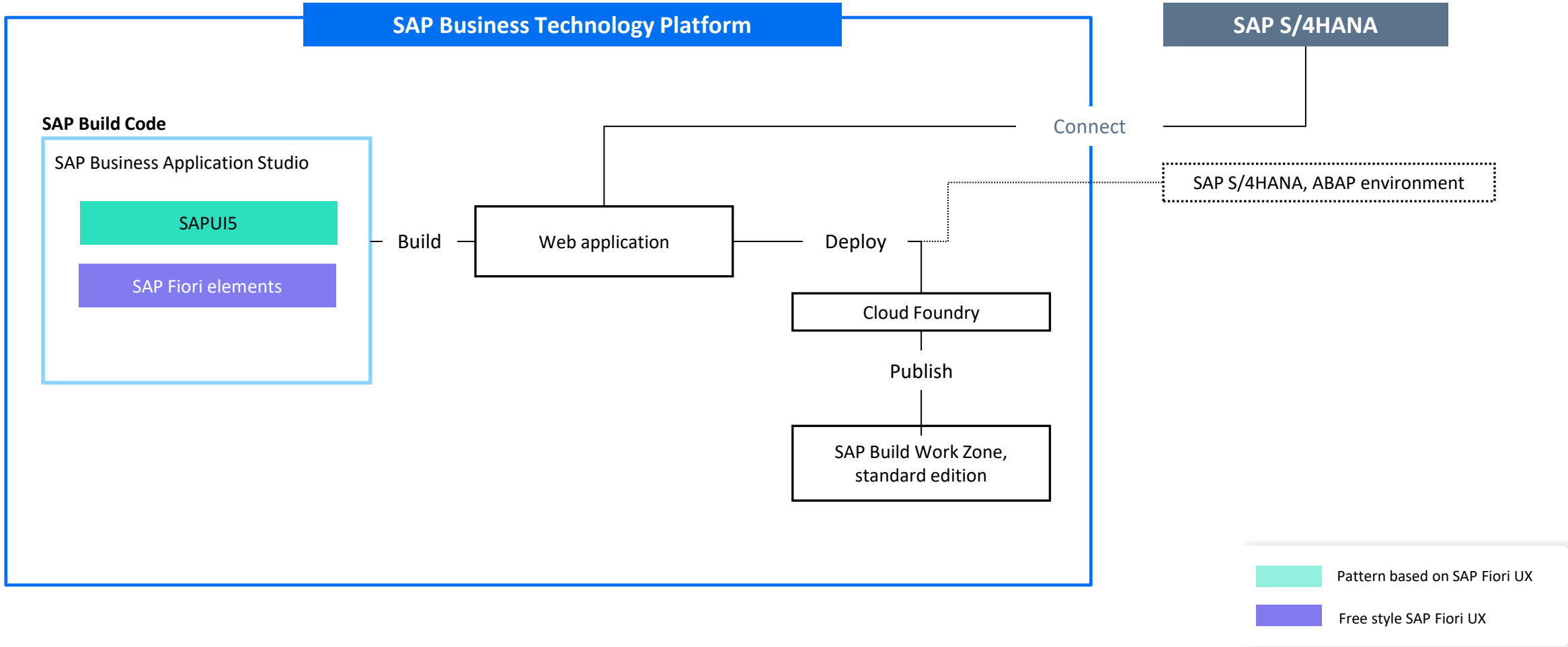


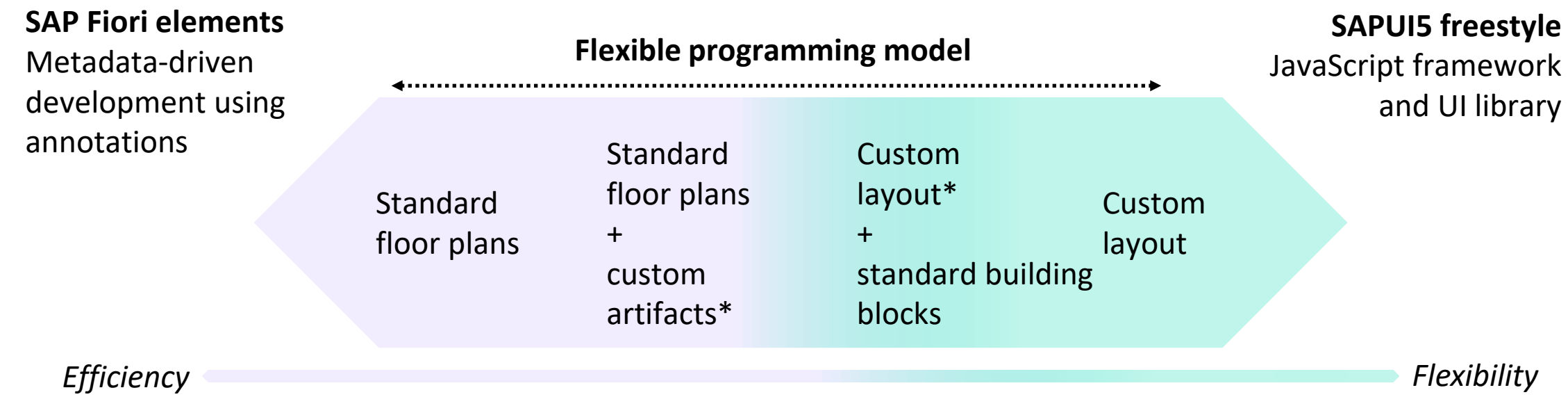
Build Web applications with SAP Build Code



SAPUI5		SAP Fiori elements
Flexibility	Overall approach	Efficiency
Anything you want	Design requirements	Standard floor plans
Web development (JavaScript, HTML)	Development knowledge	Annotations (XML, wizards, development guides)
Own coding, own UI logic	App ownership, maintenance	Own annotation, SAP’s UI logic
Higher	Total cost of ownership	Lower

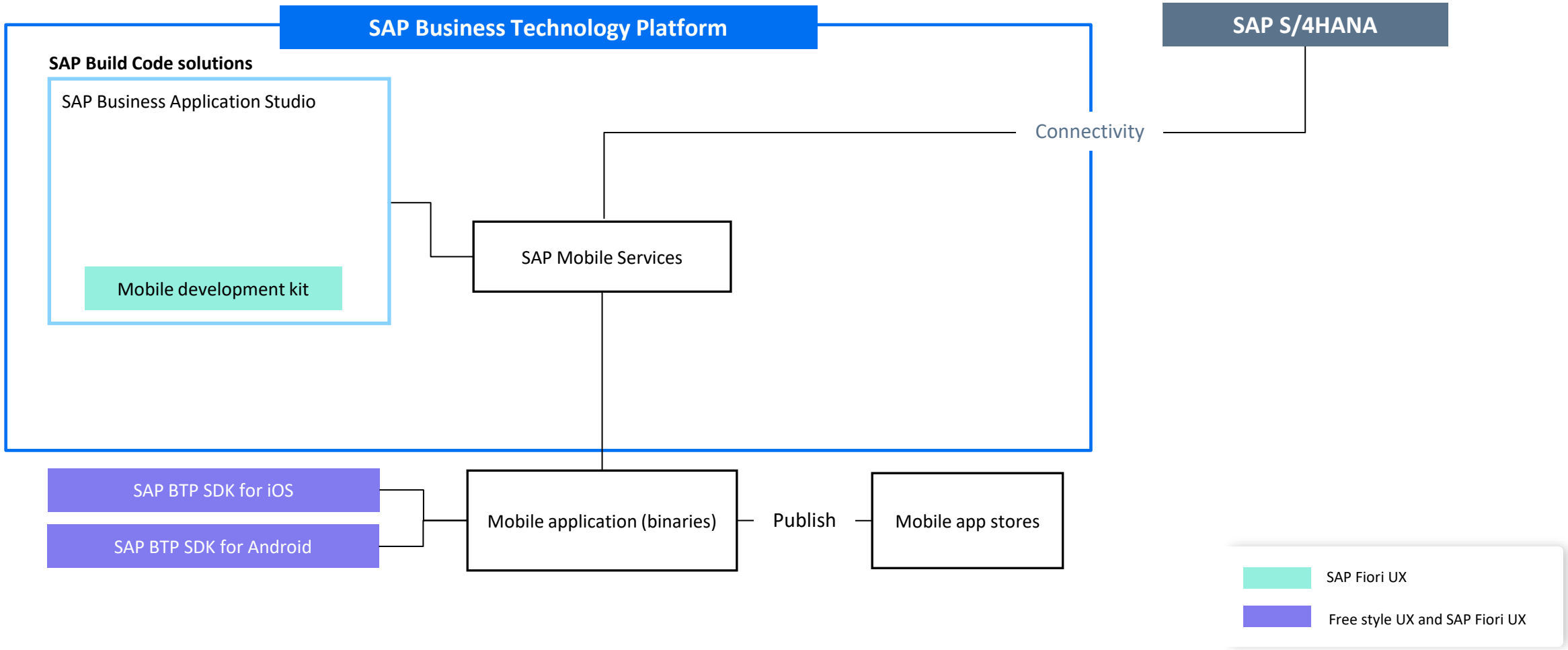
Flexible programming model blends SAP Fiori elements and SAPUI5 freestyle

Developers have a continuum of options instead of an either/or decision.



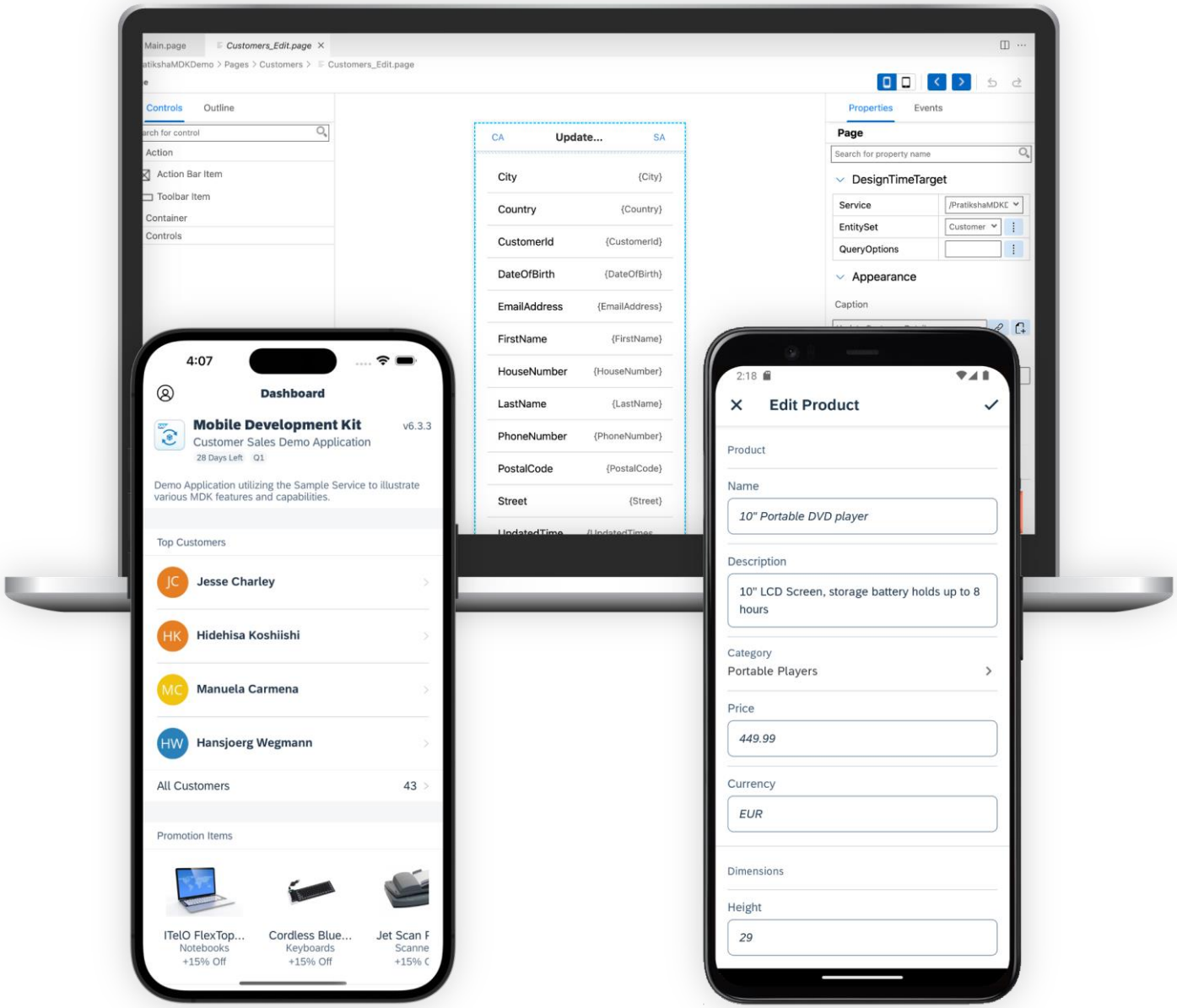
*Leveraging standard building blocks and SAPUI5 controls and custom code

Build mobile applications with SAP Build Code



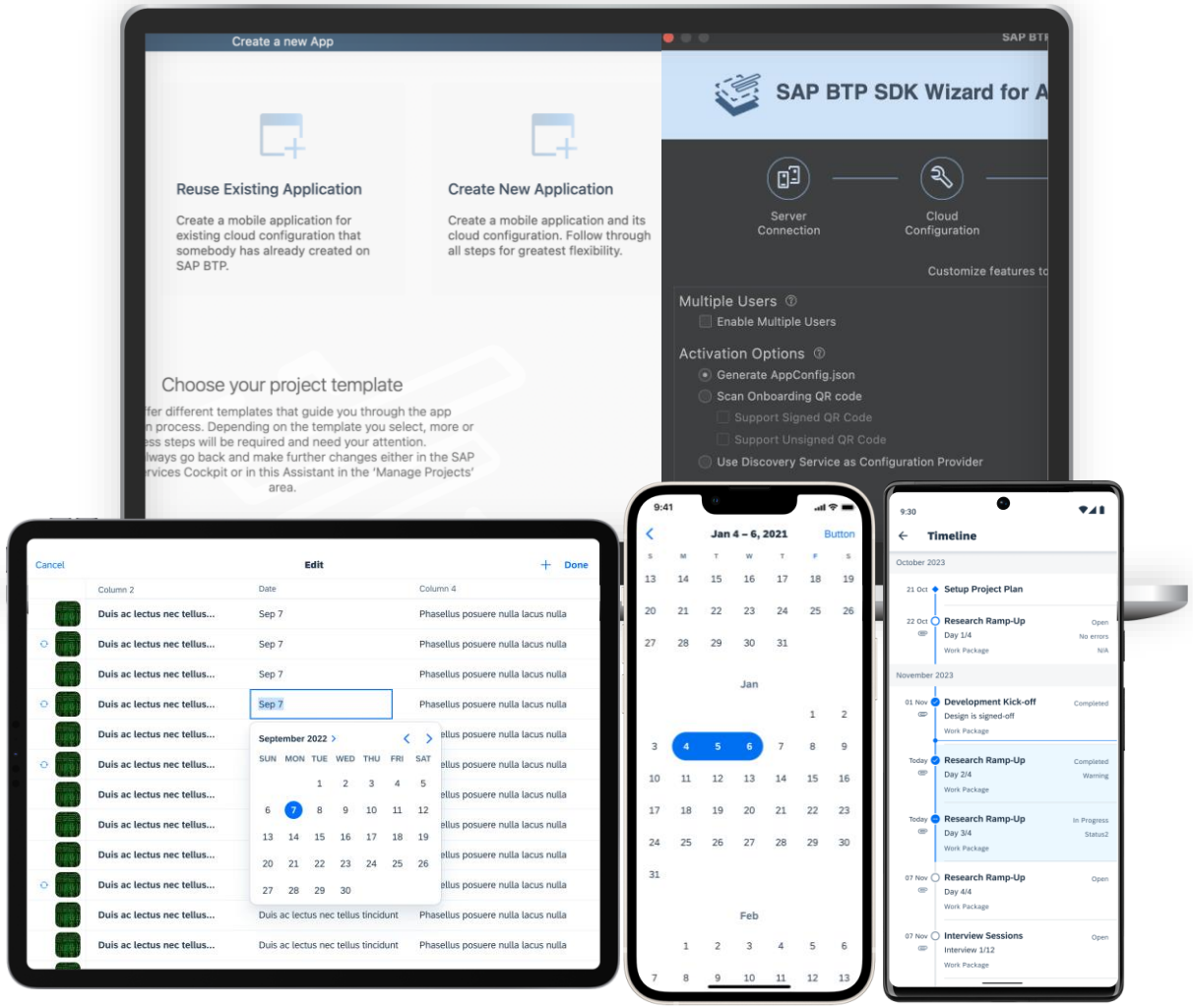
Mobile development kit

- ✓ Multichannel applications: develop once, deploy on iOS and Android
- ✓ Guidelines for the SAP Fiori design system
- ✓ Instant distribution

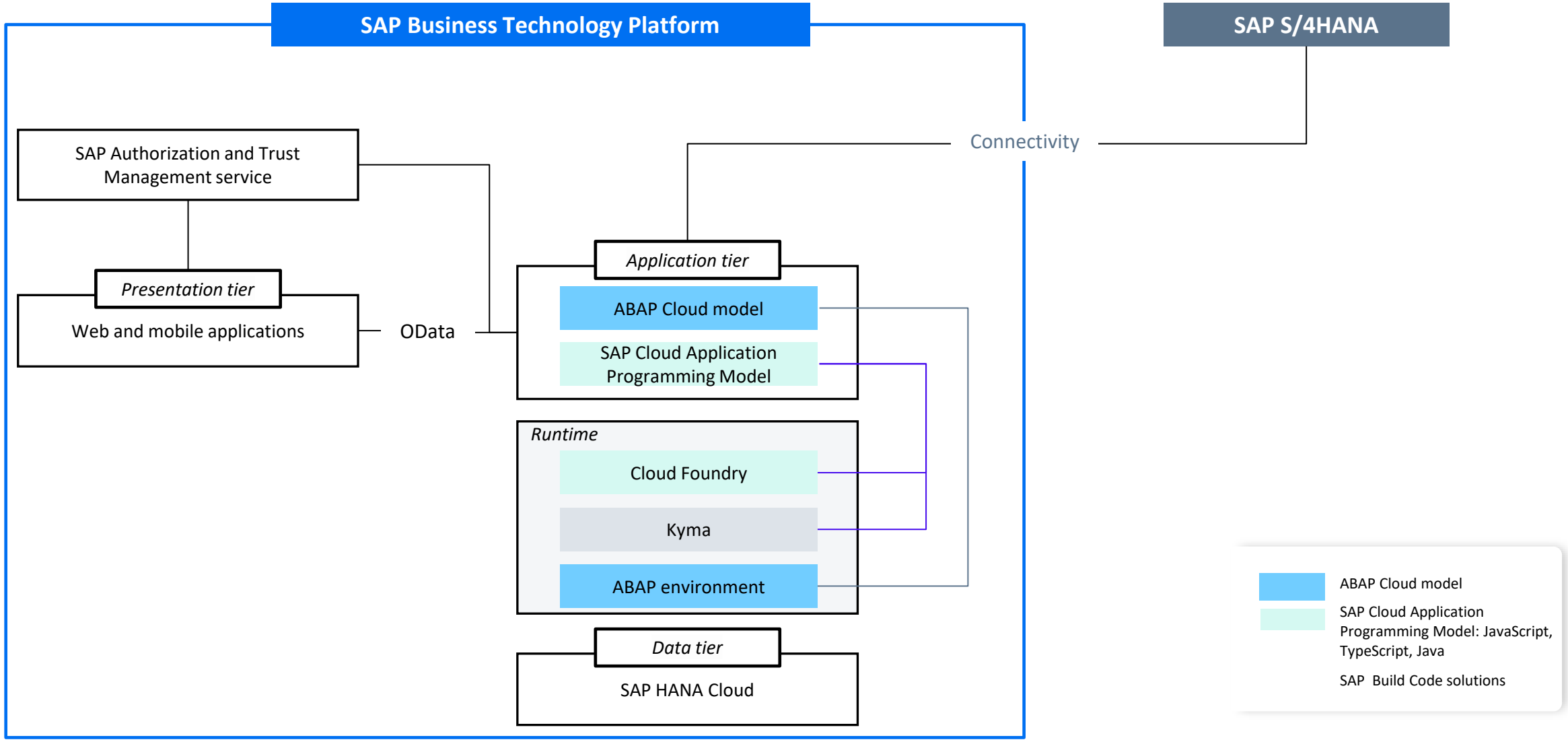


SAP BTP SDKs for iOS and Android

- ✓ Leverages SAP Fiori UX, and is compliant with platform-specific guidelines (Material Design, Human Interface Guidelines)
- ✓ Complete control over app performance even with large data sets
- ✓ Deep integration with device and 3rd party hardware
- ✓ Distribution through Apple App Store and Google Play Store



Develop full-stack applications



SAP Cloud Application Programming Model with SAP Build Code

Simplified development and higher developer productivity

- Focus on application domain
- Reducing boilerplate code
- Following enterprise best practices

Safeguarding IT investments

- Future-proofing your development projects
- No lock-in effect through abstraction layer
- Minimizing risks associated with technology changes

Intrinsic cloud qualities

- Multitenancy
- Extensibility
- Cloud security
- Scalability
- Messaging
- Observability
- Resilience

Demo: Full-stack extension with SAP Build Code solutions

Thank you! Questions?

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