



OpenEdge Roadmap

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Disclaimer

All roadmaps are for informational purposes only, and the reader is hereby cautioned that actual product development may vary significantly from roadmaps

These roadmaps may not be interpreted as any commitment on behalf of Progress, and future development, timing and release of any features or functionality described in the roadmaps remains at our sole discretion

Ch-ch-ch-ch-changes

APIs
Everywhere



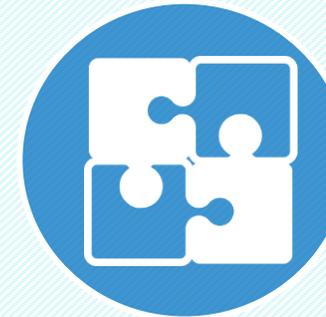
Cloud and
Mobile

Continuous
Deployment



I
**Welcome
Change**

*As Long as Nothing is
Altered or Different*



Component
Assembly

Continuous
Availability



Application
Evolution

YOUR FUTURE

Availability
Performance
Evolution

Availability

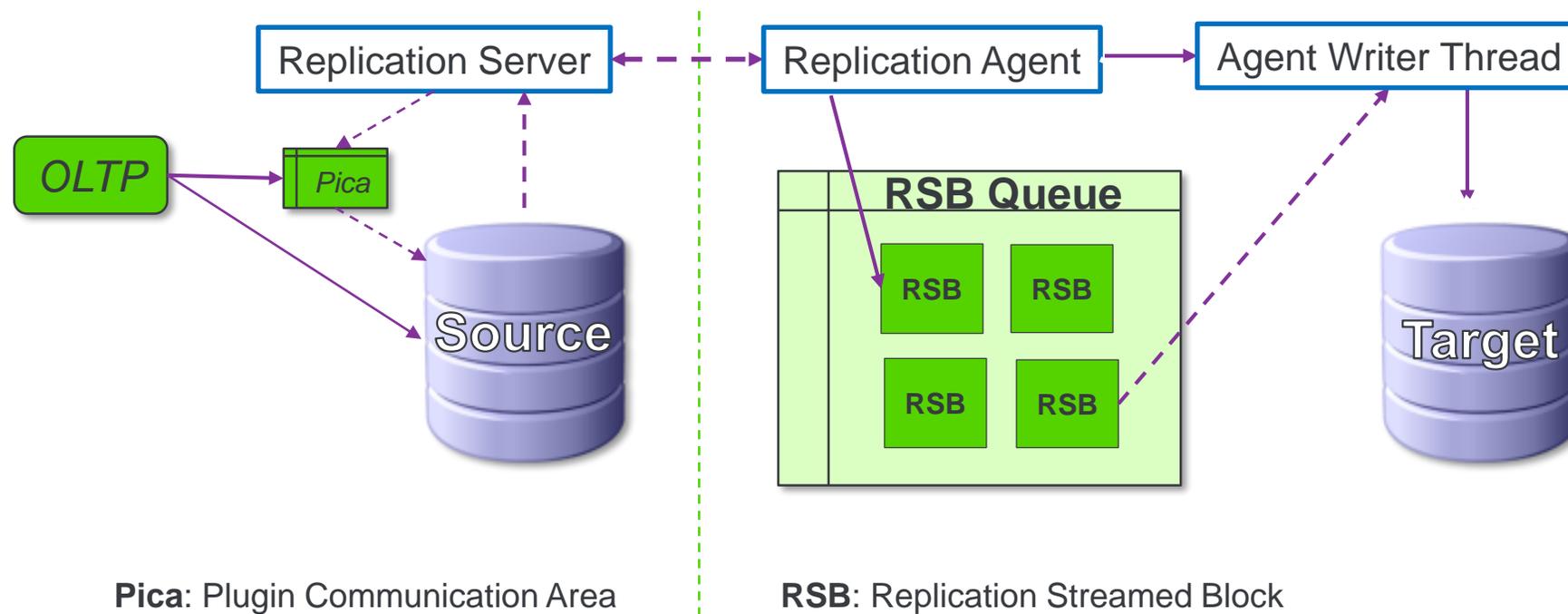
99.999



OpenEdge 12.0 – Availability

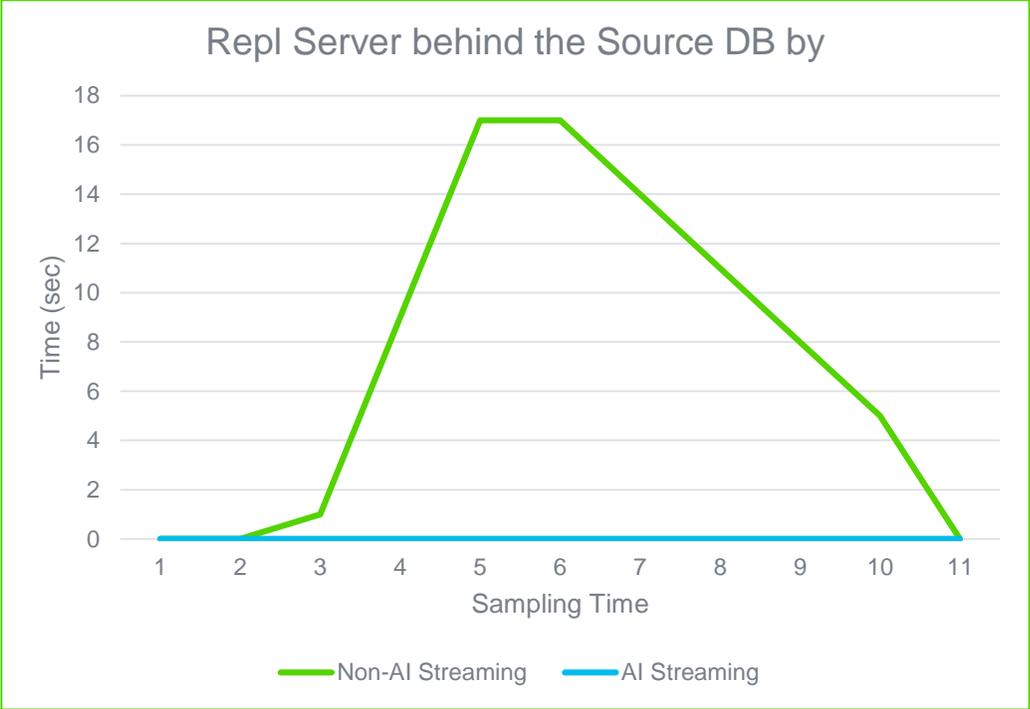
■ Improved Resilience:

- Self-monitor PAS for OpenEdge health – auto-cycle Server instances
- Replication AI file streaming

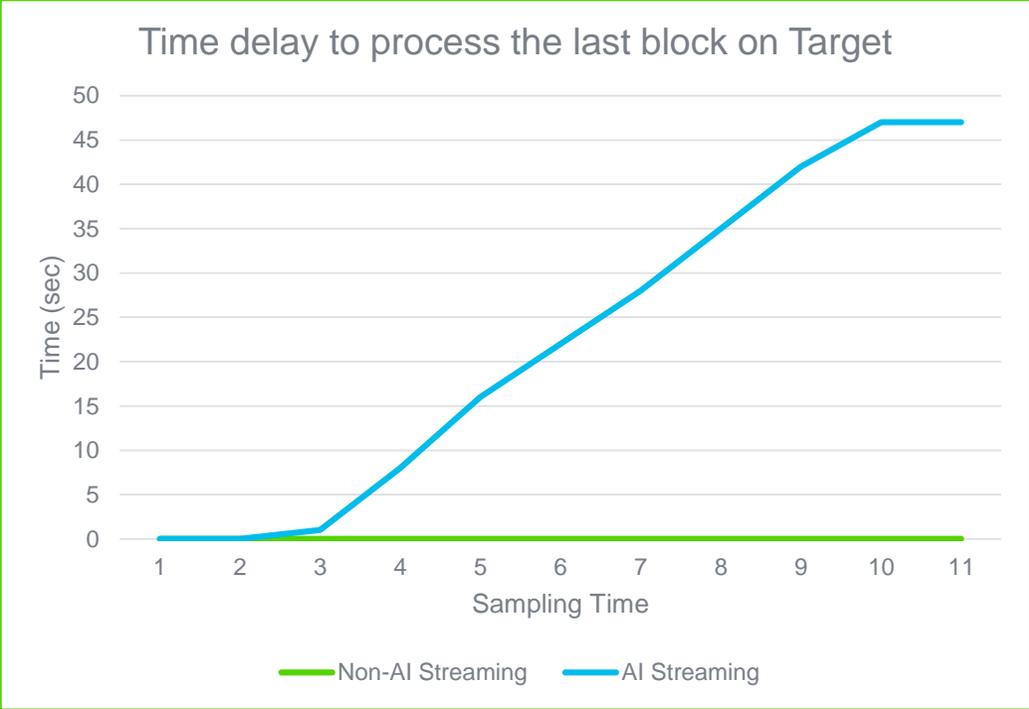


Replication Latency by Time

Source Machine



Target Machine





OpenEdge 12.0 – Availability

- Improved Resilience:
 - Self-monitor PAS for OpenEdge health – auto-cycle Server instances
 - Replication AI file streaming
- Additional Online Operations:
 - SQL Drop Index, Column or Trigger
 - SQL Rename Index or Column
 - SQL – JVM management and configuration
 - Convert variable-length Extents to a fixed length
 - Database log file archive and truncate (OE 11.7.3)



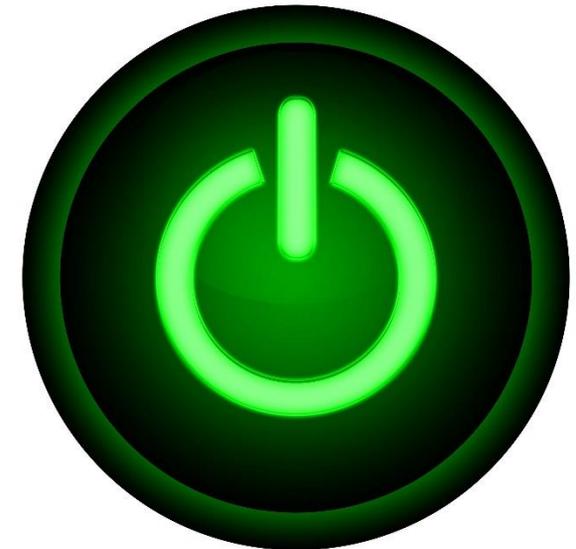
OpenEdge 12.0 – Security for Availability

- Update Spring (OE11.7.x & 12.0) and OpenSSL (OE12.0)
- PAS for OE support for OAuth2 (OE11.7.3) & SAML (OE11.7.4)
- SQL/ABL Security Model Unification, Phase 1
- Internal infrastructure security:
 - Address Veracode (Java), AppScan (C++) and OWASP (3rd-party libraries) high-priority issues
 - Update Client Principal cryptography
 - Remove RC4 as a Transparent Data Encryption cipher
 - Support current Hash Message Authentication Code (HMAC) algorithms (OE11.7.4)

Continuous Availability



- Online Database Maintenance
 - Index rebuild
 - Startup parameters: default settings, increasing online, auto-tuning (autonomics)
 - BI space reclamation, Extent management, Area truncate/remove
- Online Schema Changes
 - Add/Drop resources – Field, Table, Index, Sequence, Trigger, etc.
- Automated Upgrades
 - Continuous Integration & Deployment (CI/CD)
- Disaster Recovery
 - Automated & transparent ABL Client failover
- Security
 - Updating Spring, OpenSSL and internal cryptography
 - SQL/ABL security model unification- adopt SQL standard
 - Signing R-code and PL files



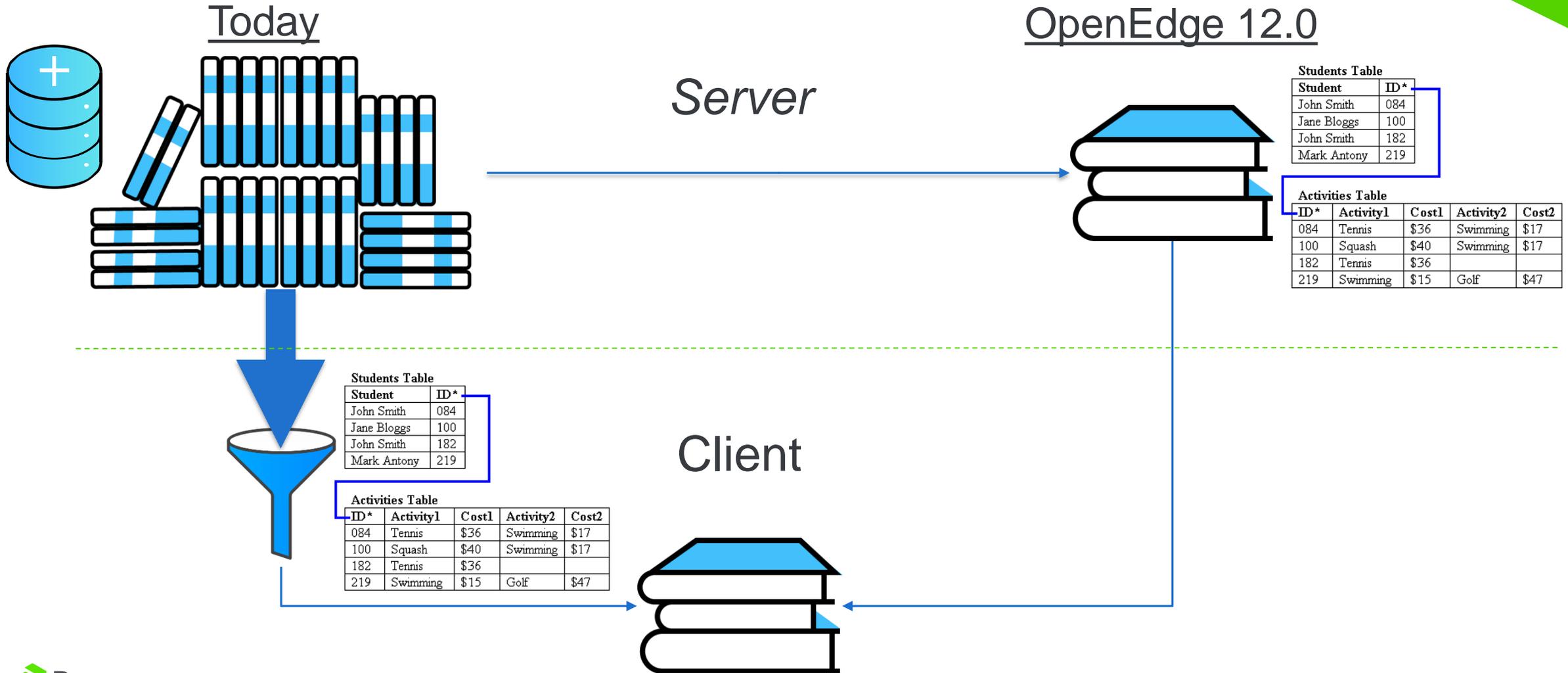
Always On!

Performance & Scale



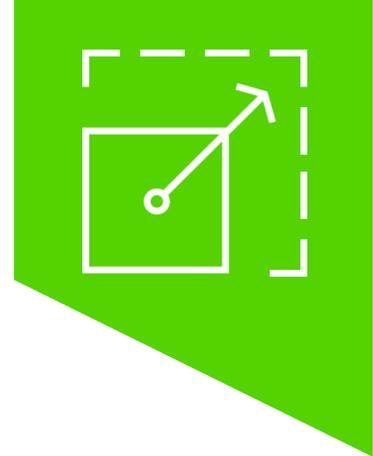
OpenEdge 12.0 – Performance and Scale

Language: *Resolve Table JOINS on the Server*



OpenEdge 12.0 – Performance and Scale

OpenEdge Database: *Multi-threaded Processing*



Today, DB access requests are handled one-at-a-time

Tomorrow, DB access requests are handled *Concurrently* for Remote Clients



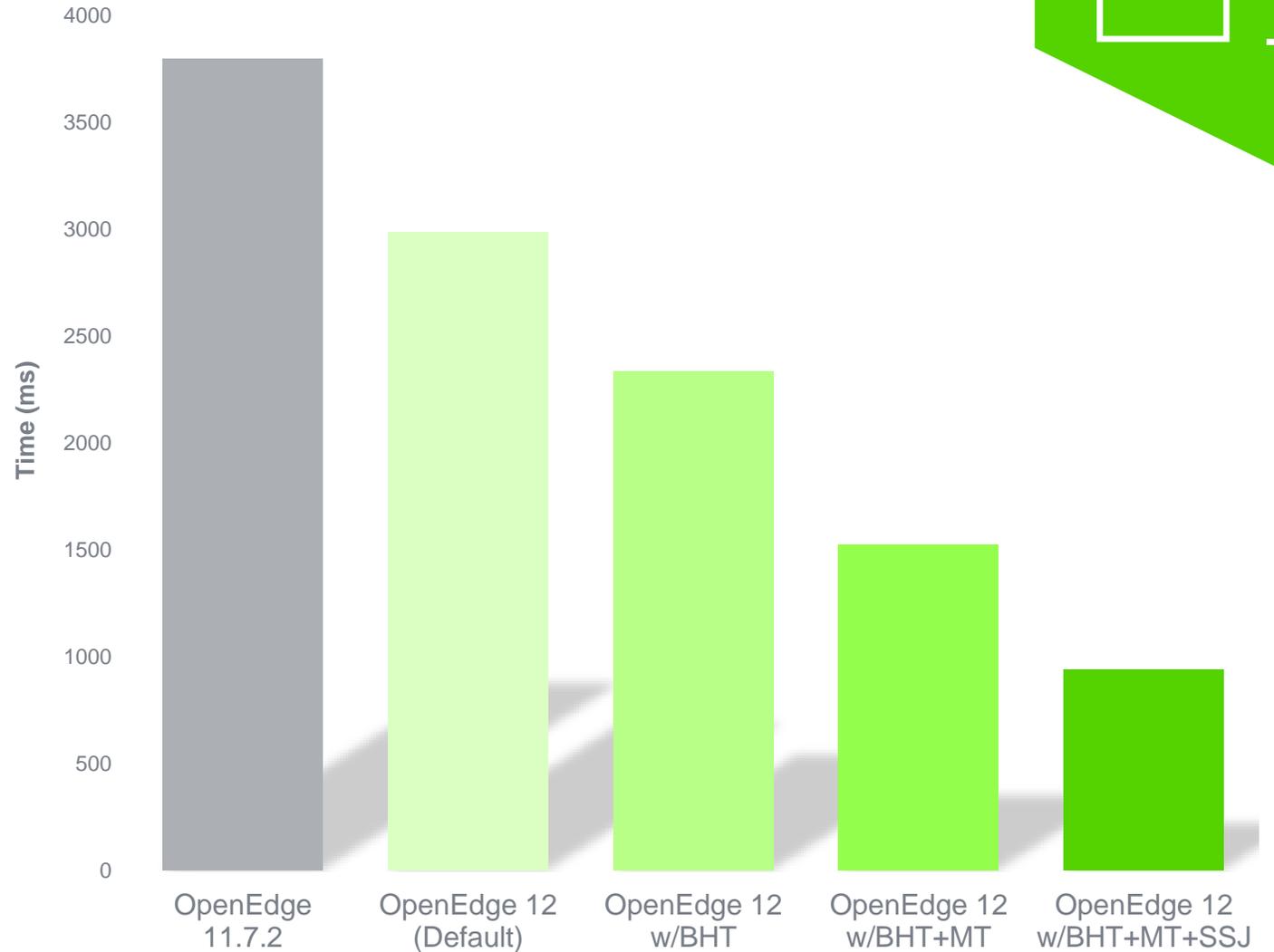
Up to **3x**

throughput versus 11.7
in N-tiered deployments

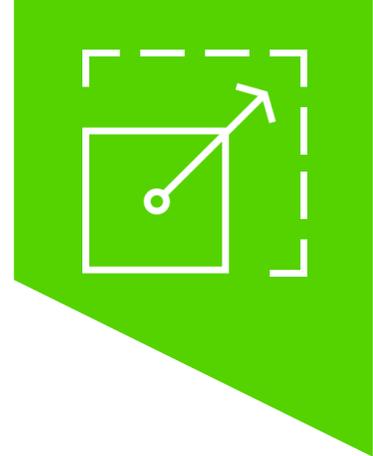
*Your results may vary depending on
architecture and use-case*

Transaction Time Comparison

(milliseconds, lower is better)



OpenEdge 12.0 – Performance and Scale



- ABL & OpenEdge Database
 - Streamline Server-side Table JOINS
 - Multi-threaded database
 - Reduce contention on the buffer hash table
- SQL
 - Autonomously update statistics
 - Ability to cancel a (long running) SQL query

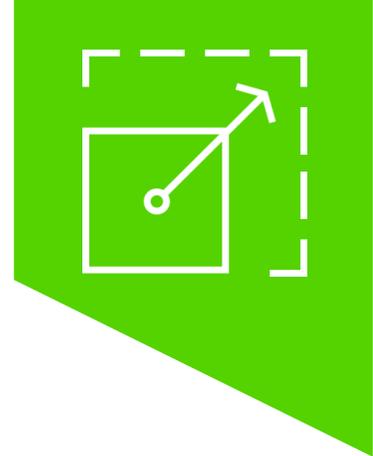
Performance and Scale

■ Performance

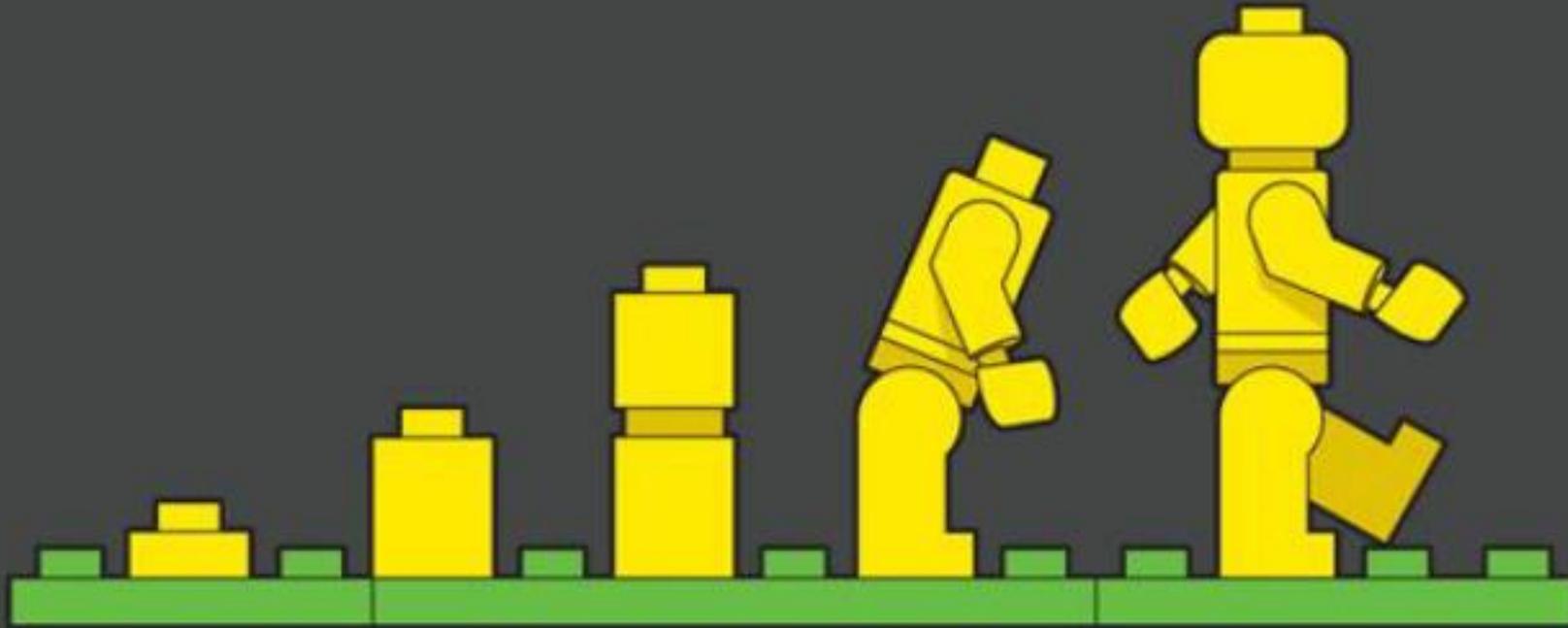
- Increased ABL/OOABL run time performance
- SQL bulk load of data
- Ongoing DataServer performance improvements

■ Scale

- Enhanced support for Containers, Kubernetes (orchestration)



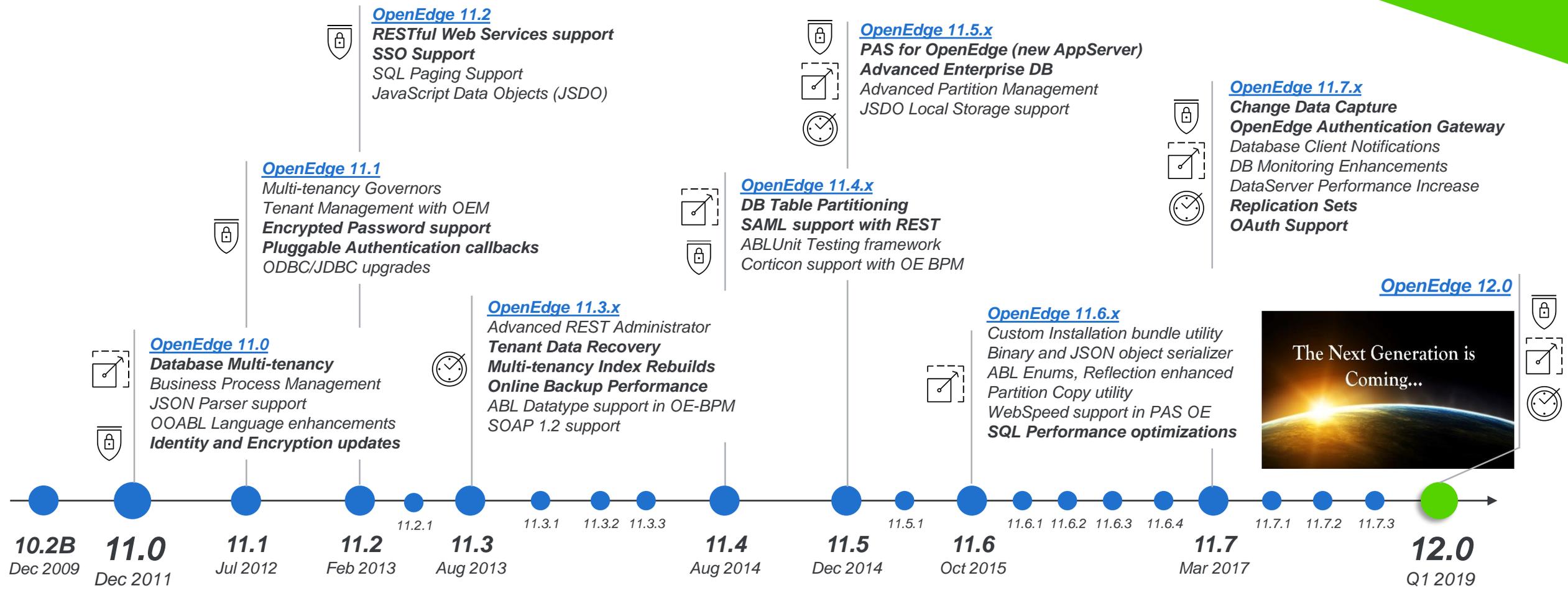
Application Evolution / Modernization



Evolution: OpenEdge 11 to 12

Legend

- Security
- Scale
- Availability



OpenEdge 12.0 – Evolution Tooling



- Coding:
 - SQL: Null as a value, and Date-Time Function support
 - Execute FINALLY blocks during STOP processing (11.7.3)
 - Set a return code on application exit (11.7.4)
 - Technical Preview: Eclipse Che hosted development
- Refactoring:
 - Find references
 - Rename a Class Name – filename, constructors, class name, .p creating new objects, variable declaration, arguments/parameters, using, inherits, NEW statements
- Compilation:
 - Supply Progress Compilation Tools (PCT) (11.7.3)
 - Prevent Methods/Function with no RETURN, or RETURN from inside a FINALLY block
- Code Quality:
 - ABL source code analysis, via SonarCube



OpenEdge 12

Evolution Tooling

- Coding:
 - CI/CD and Eclipse Che hosted development
 - Call Tree/Graph
 - REST service documentation (OpenAPI)
- Refactoring:
 - Rename Parameters, Properties
 - Harvest business logic & procedural to OO conversion
- Compilation:
 - Additional quality and best practices checks
- Code Quality:
 - Generate Stack Trace with Error Objects

YOUR FUTURE

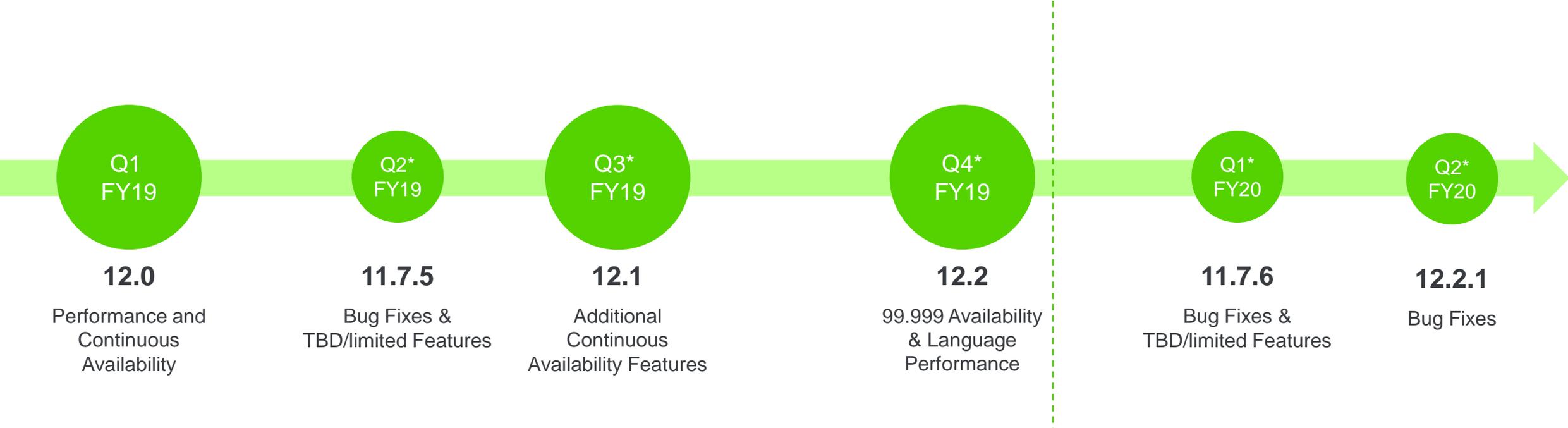
Availability
Performance
Evolution



OPENEDGE 12...

The New Dawn is Coming!

OpenEdge Calendar



* Proposed Dates

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