

Open Source Community Day

23 - 24 September



Co-located with
AIOTI Days 2025

AI in Enterprises - Java and Open Source to the Rescue

Ivar Grimstad



*Jakarta EE Developer Advocate
Eclipse Foundation*



@theguywiththeduketattoo.com



@ivar_grimstad@mastadon.social



<https://github.com/ivargrimstad>



<https://www.linkedin.com/in/ivargrimstad>



ivargrimstad_official



https://www.threads.net/@ivargrimstad_official

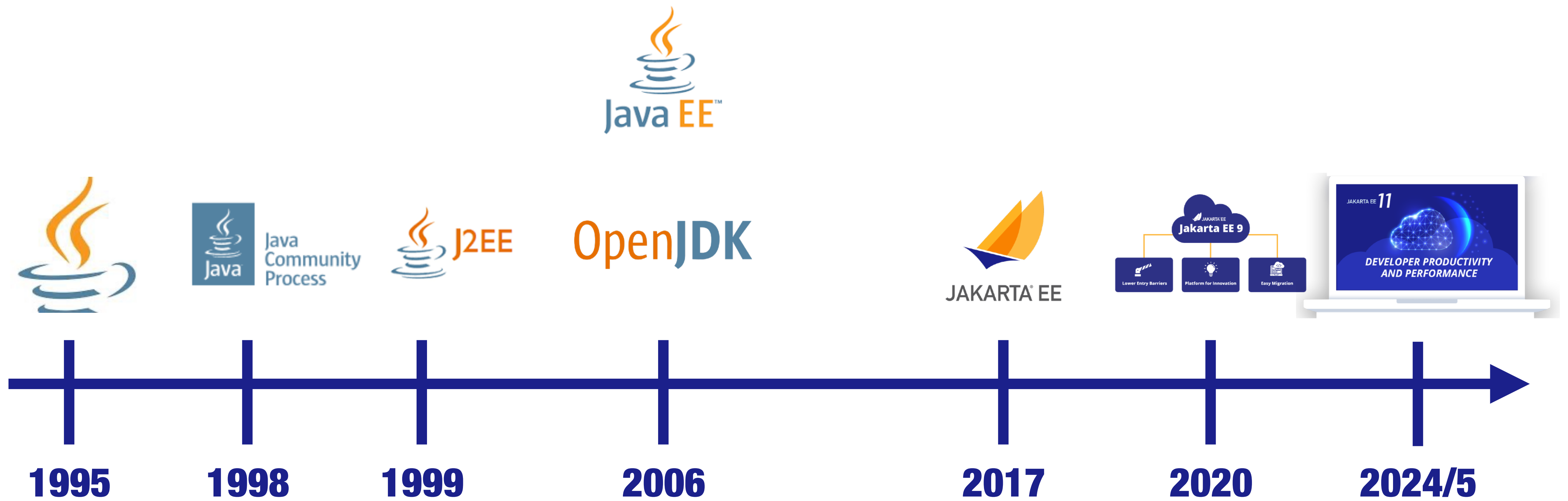


@ivar_grimstad



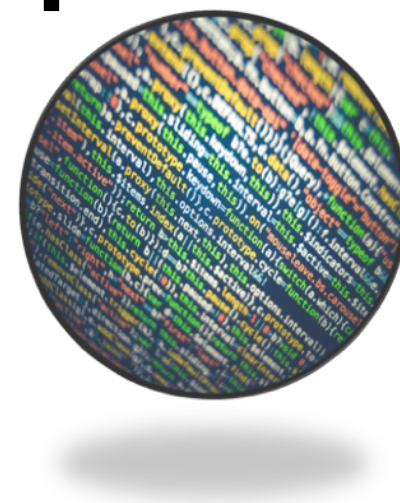
**Oracle ACE
Pro**





javax.* -> jakarta.*

Open Source



Eclipse Foundation Specification Process (EFSP)

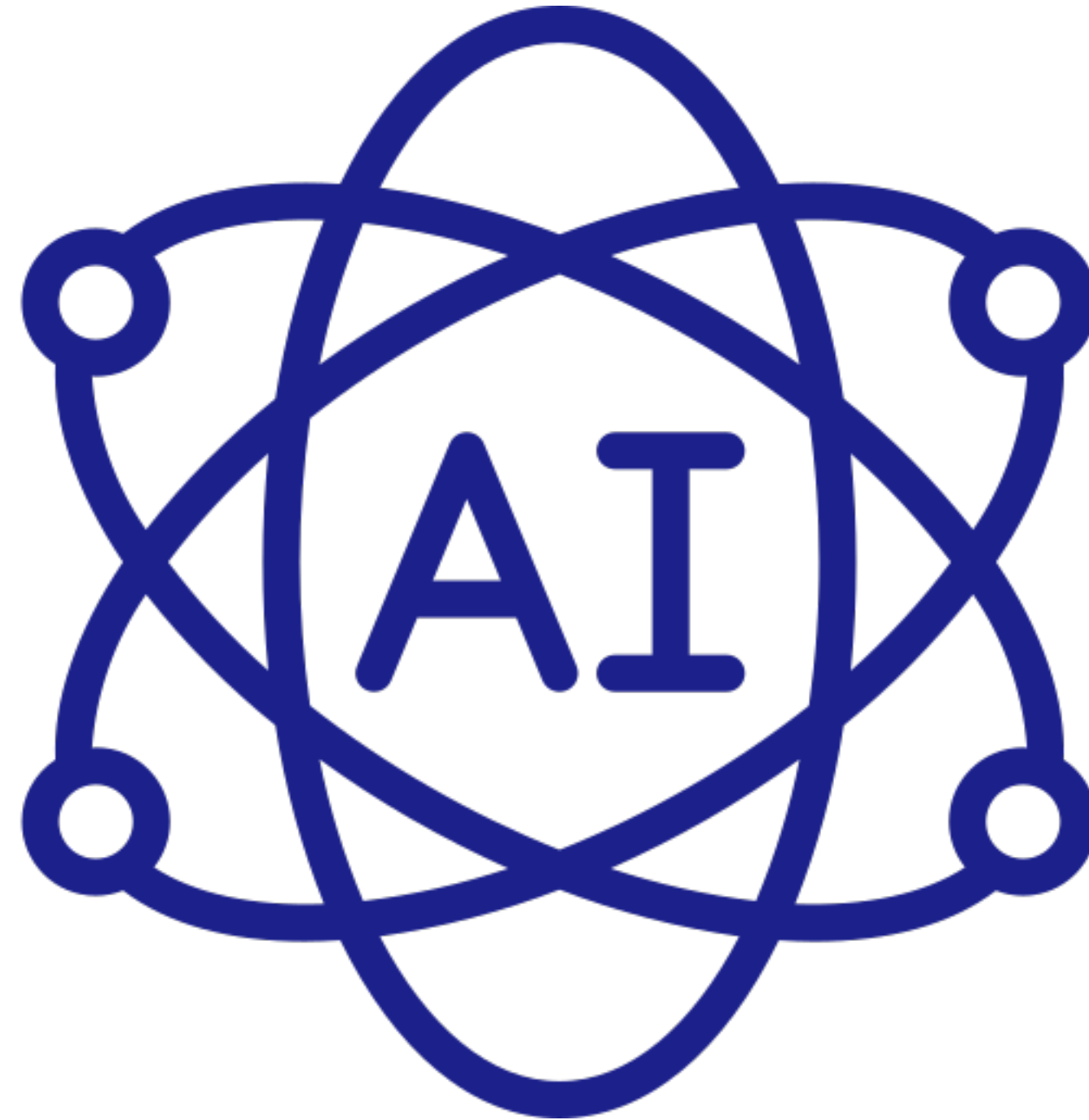
Final Specification

Specification
Document

API

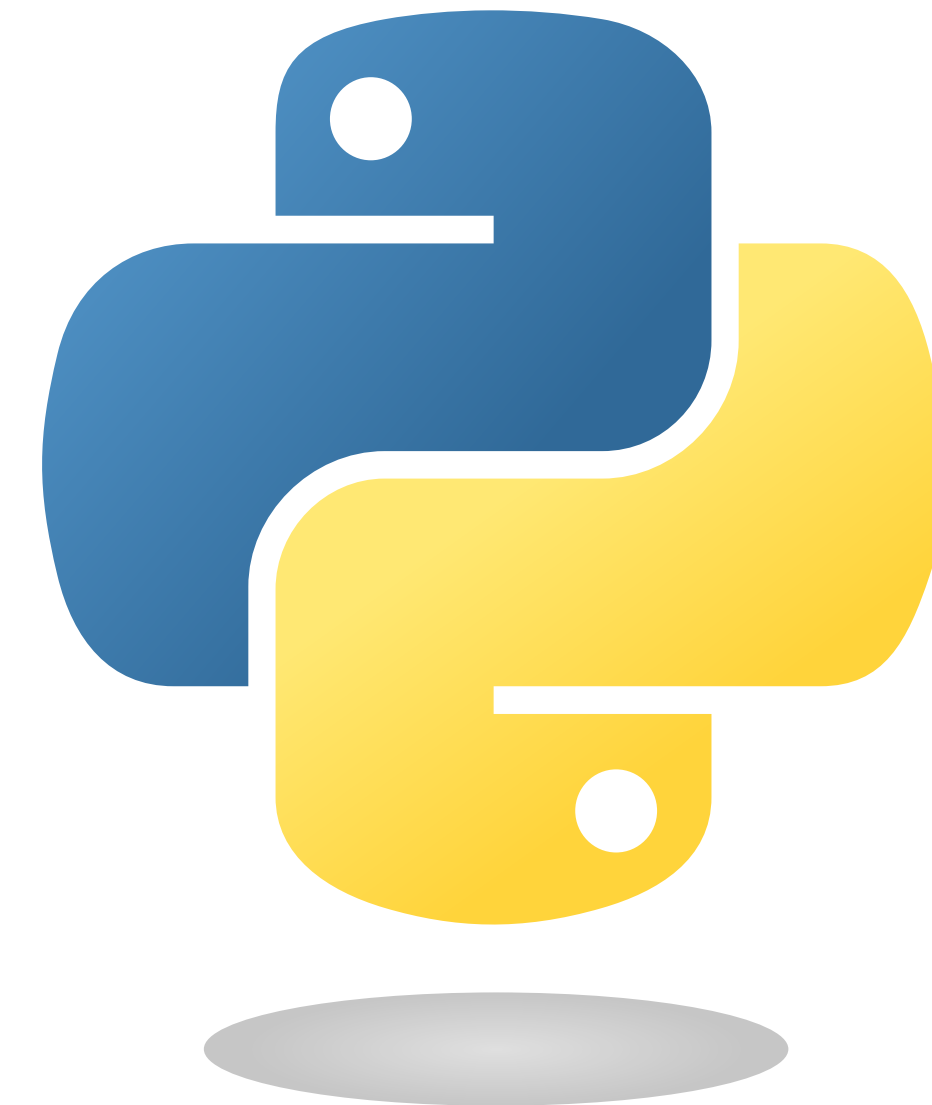
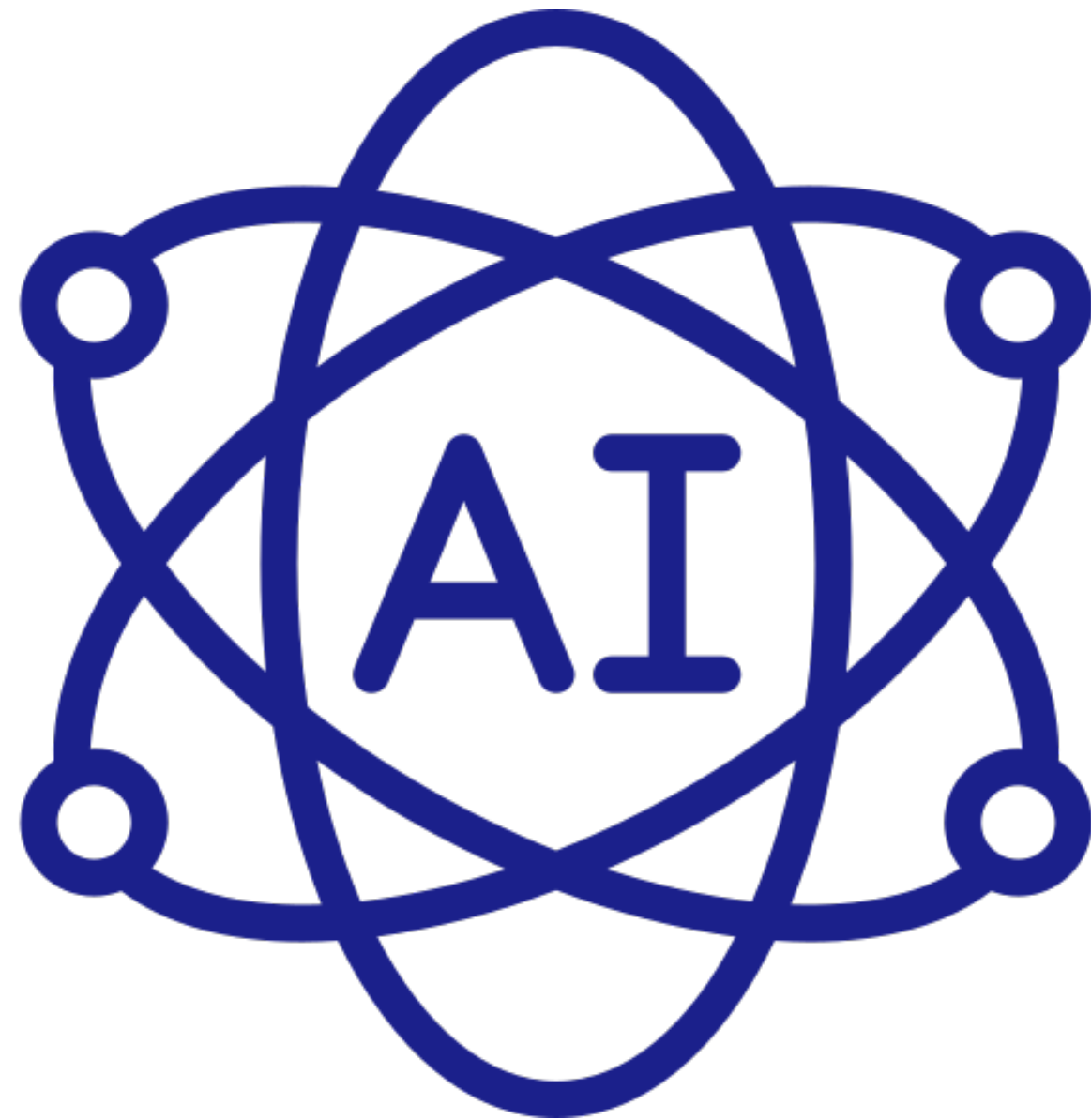
TCK

Compatible
Implementation(s)





The World Runs on Java



**Do I have to learn
Python now?**



The Answer is NO

OpenJDK

Project Panama



[Installing](#)
[Contributing](#)
[Sponsoring](#)
[Developers' Guide](#)
[Vulnerabilities](#)
[JDK GA/EA Builds](#)

[Mailing lists](#)
[Wiki · IRC](#)
[Mastodon](#)
[Bluesky](#)

[Bylaws · Census](#)
[Legal](#)

Workshop

JEP Process

Source code

[GitHub](#)
[Mercurial](#)

Tools

[Git](#)
[jtreg harness](#)

Groups

[\(overview\)](#)
[Adoption](#)

Project Panama: Interconnecting JVM and native code

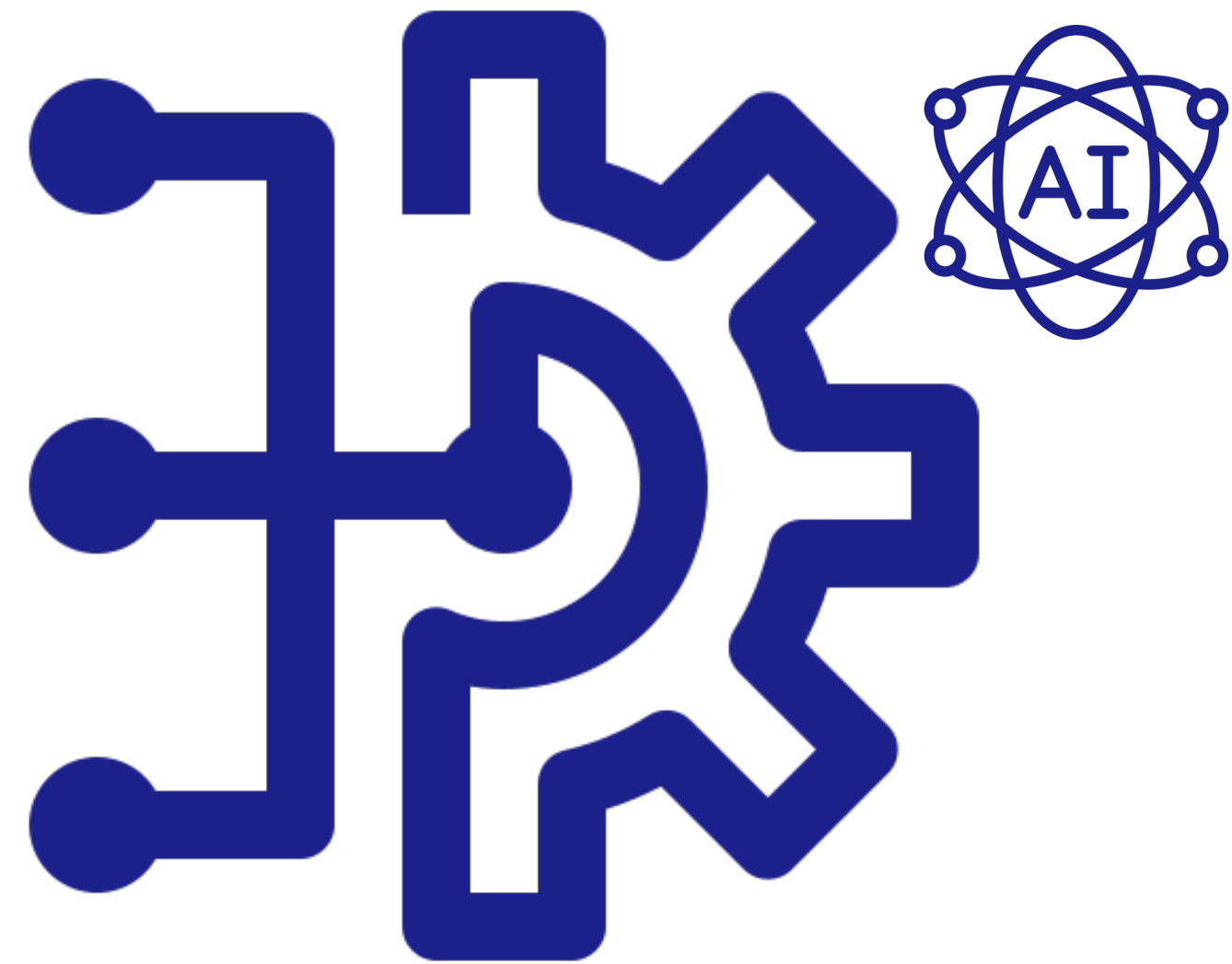
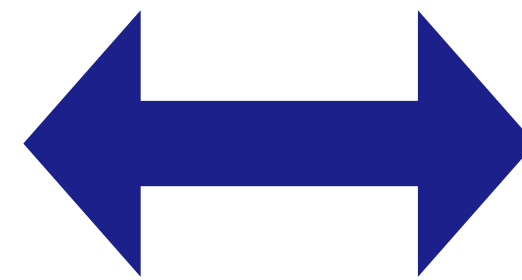
We are improving and enriching the connections between the Java virtual machine and well-defined but “foreign” (non-Java) APIs, including many interfaces commonly used by C programmers.

To this end, Project Panama will include most or all of these components:

- native function calling from JVM
- native data access from JVM or inside JVM heap
- new data layouts in JVM heap
- native metadata definition for JVM
- header file API extraction tools (jextract)
- native library management APIs
- native-oriented interpreter and runtime “hooks”
- class and method resolution “hooks”
- native-oriented JIT optimizations
- tooling or wrapper interposition for safety
- exploratory work with difficult-to-integrate native libraries



Application



AI



<https://docs.langchain4j.dev>



Helidon



Jakarta EE 10 Core Profile

Jakarta EE 10 Core Profile

RESTful Web Services 3.1

JSON Processing 2.1

JSON Binding 3.0

Annotations 2.1

Interceptors 2.1

Dependency Injection 2.0

CDI Lite 4.0

Updated

Not Updated

New

The Periodic Table of Helidon

									Asynchronous							
	OpenAPI	OCI Logging				MicroTx			Fallback	OCI Certificates	HTTP Signatures					
	Web Client	FluentBit				Oracle UCP			Bulkhead	OCI Vault	HTTP Basic					
HTTP 1.1./2	REST	FluentD		OCI APM	Kafka	HikariCP	Oracle		Timeout	HashiCorp Vault	HTTP Digest				Oracle Cloud Infrastructure	
PROXY	GraphQL	SLF4J		Zipkin	WebLogic JMS	Hibernate	MySQL	MongoDB	Retry	Keycloak	Header Assertion	TestContainers			OCNE	
WebSocket	gRPC	Log4j2	JSON	Jaeger	JMS	EclipseLink	PostgreSQL	Neo4j	Health Checks	IDCS (OCI)	ABAC	JUnit 5			Kubernetes	
Raw Sockets	Adaptive Concurrency	Java Util Logging	Prometheus	OpenTelemetry	Oracle AQ	DB Client	H2	Oracle NoSQL	Circuit Breaker	OIDC	CORS	TestNG			On-Premises	Coherence
Protocols	API Models	Logging	Metrics	Tracing	Messaging	Persistence	Relational Database	Non-Relational Database	Fault Tolerance	Security		Testing	Deployment Platform	Caching	Artificial Intelligence	
Observability																

Jakarta EE Core	Jakarta CDI	JAX-RS	Jakarta JSON-P	Jakarta JSON-B	Jakarta Persistence	Jakarta Transactions	Jakarta Annotations	Jakarta EE 10 Core Profile
MicroProfile Core	MicroProfile Config	MicroProfile Fault Tolerance	MicroProfile Metrics	MicroProfile JWT Authentication	MicroProfile REST Client	MicroProfile OpenAPI	MicroProfile Health	MicroProfile Telemetry
MicroProfile Optional	MicroProfile Reactive Streams Operators	MicroProfile Reactive Messaging	MicroProfile LRA	MicroProfile GraphQL				

Summary

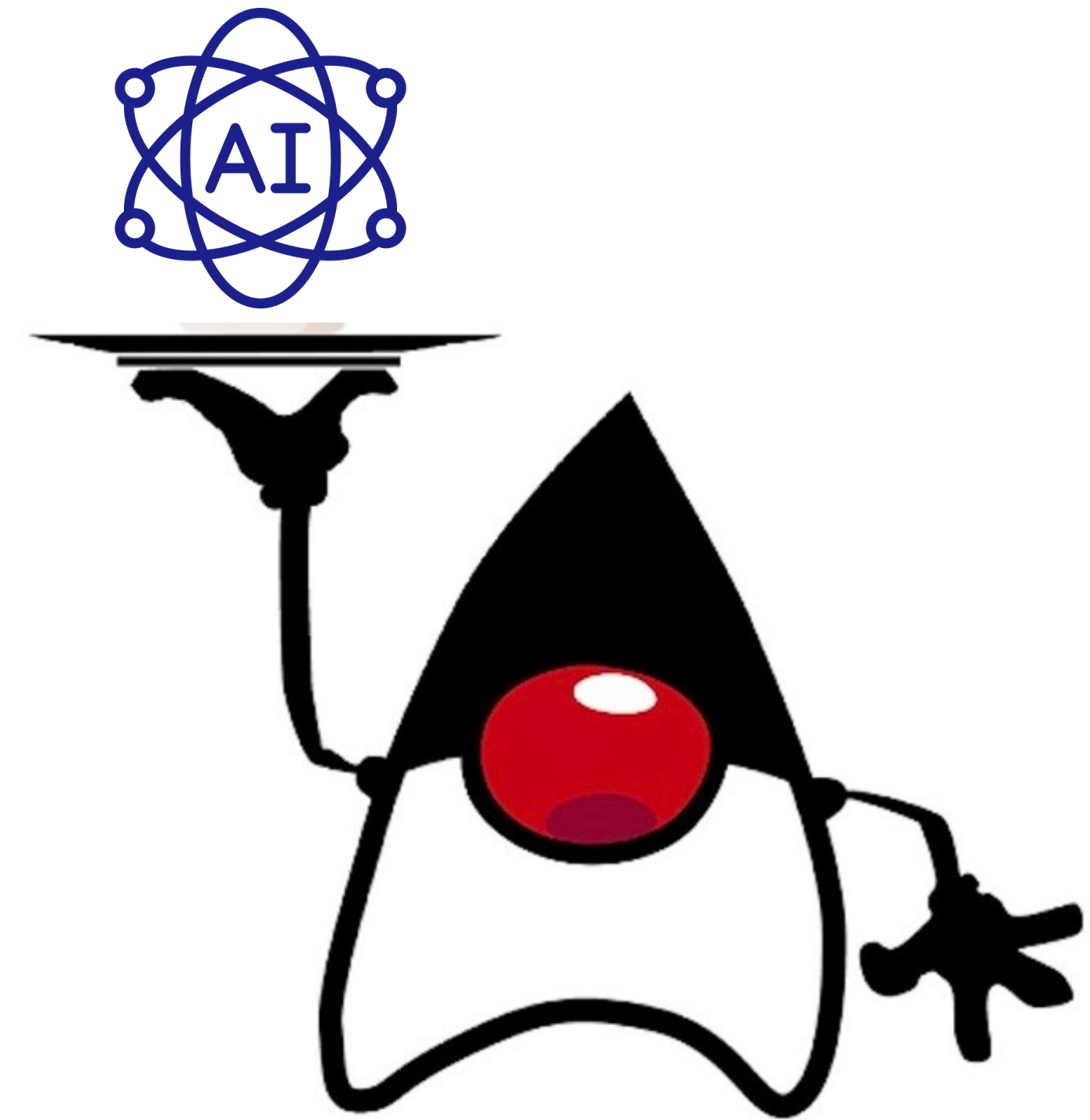
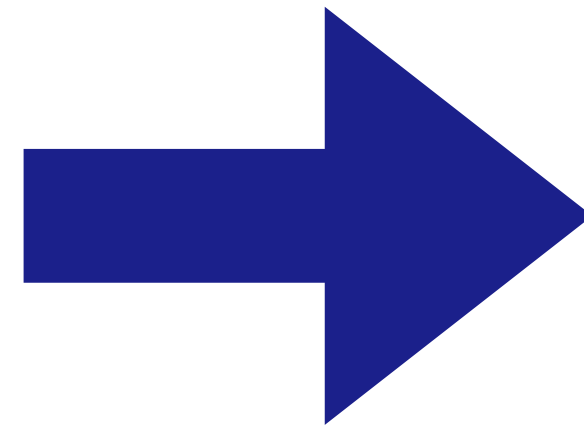


The World Runs on Java



OpenJDK





Jakarta EE

<https://jakarta.ee>



JAKARTA EE



<https://theguywiththeduketattoo.com>

Get Started

<https://start.jakarta.ee>

Ivar's Hashtag Jakarta EE

<https://www.agilejava.eu/category/jakarta-ee/>

Eclipse Foundation Specification Process

<https://www.eclipse.org/projects/efsp>



Thank You

