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PROJECT CASSINI

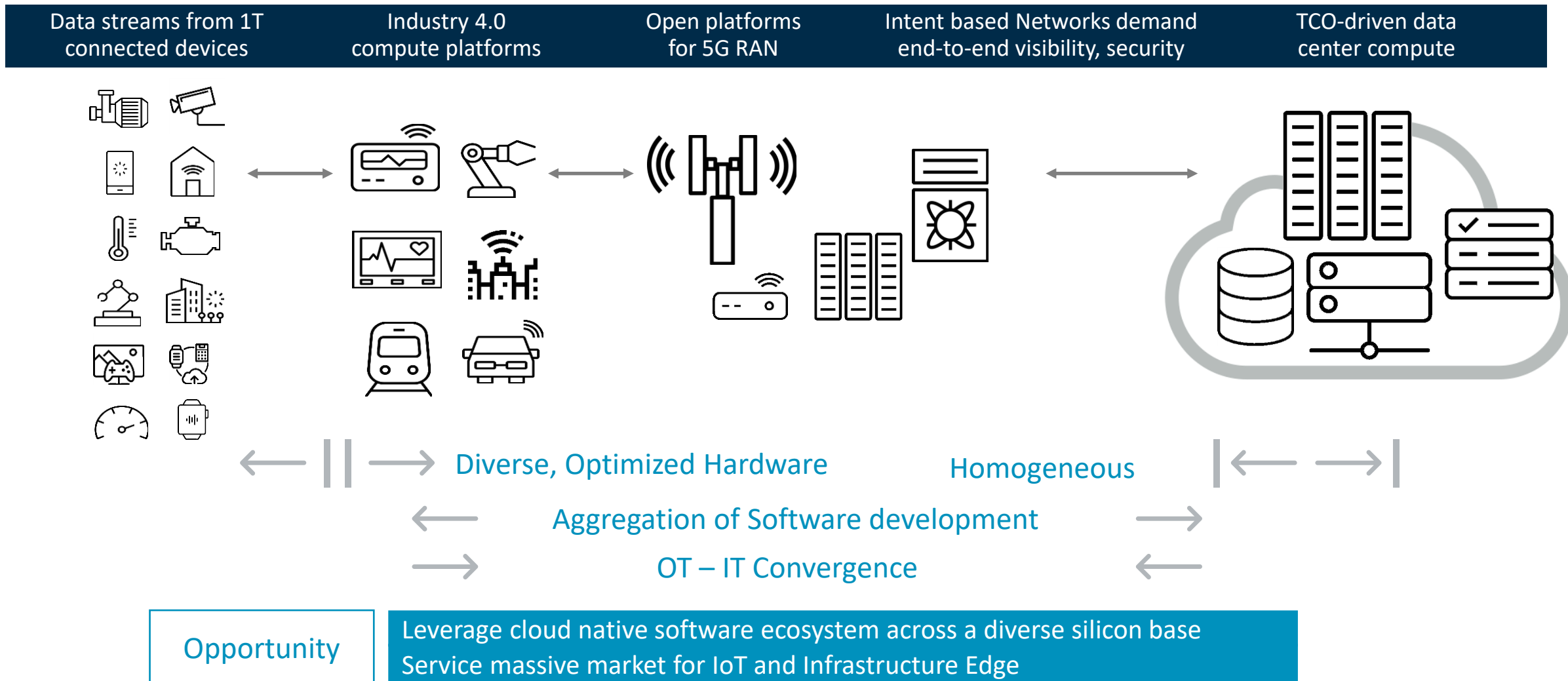
A secure, cloud native
experience at the edge

 openEDGEcomputing

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Dir., Segment Marketing, Enterprise & Edge, Arm

A frictionless edge unlocks value from the IoT

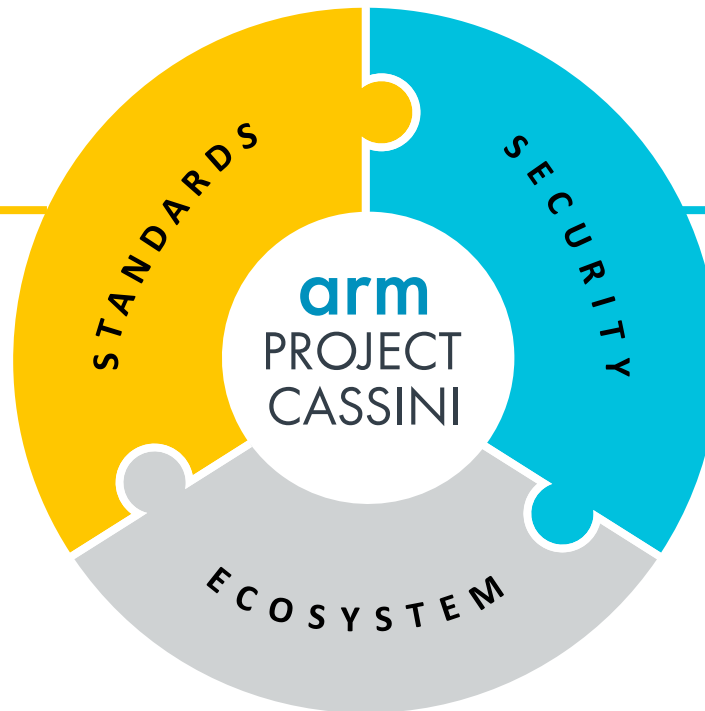
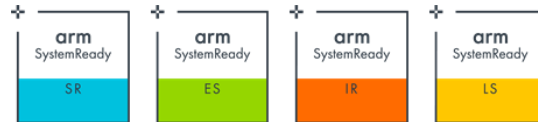


Project Cassini

Ensuring a cloud-native experience across a diverse and secure edge ecosystem

arm SystemReady

- + Hardware, firmware specifications
- + Certification program

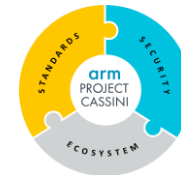


- + Security Certification program
- + Open API for cross-platform security services

Cloud Native Stacks

- + Edge Solution Reference Implementations

Arm SystemReady simplifies landing OS/Distros across platforms

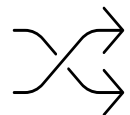


Silicon Partner

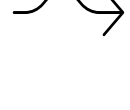
SoCs are targeted across market segments

SystemReady Hardware & SDKs provide a standards-driven baseline for ODMs, OEMs & ISVs

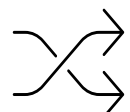
Deploy a cloud-native stack with minimal to no custom engineering



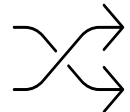
High-performance IoT Gateways



OT/IT convergence systems



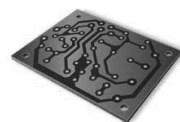
Industry 4.0 platforms



Enterprise Edge Networks



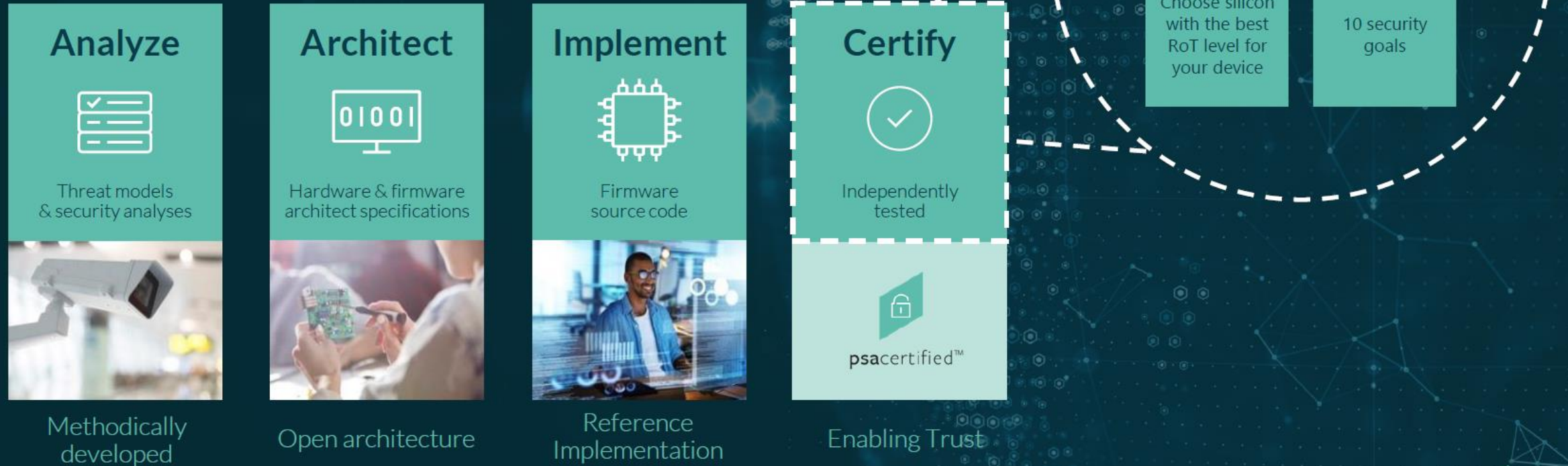
Carrier Edge Servers



arm SystemReady



PSA Certified Methodology



PARSEC: The Platform Abstraction For Security

Cloud-Native Applications, Any Programming Language, Any Runtime, Any Orchestration



PARSEC

Any Platform, Any Architecture, Any Hardware

Discrete TPM

Firmware TPM

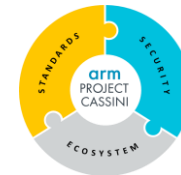
Local HSM

Remote HSM

Trusted Apps

Custom

Example Platforms



SolidRun
Honeycomb
(LS1028)

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SolidRun
iMX.8m
fTPM

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NXP LS1046a
(PKCS#11
integration with
secure object
library)

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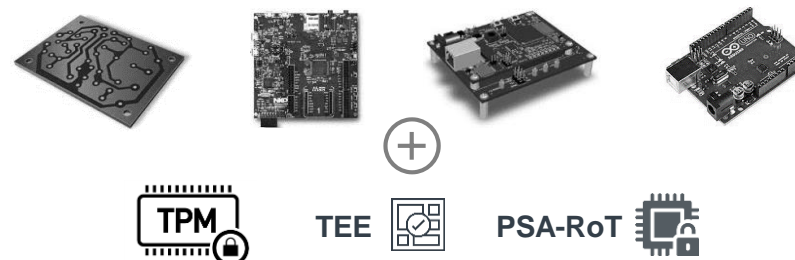
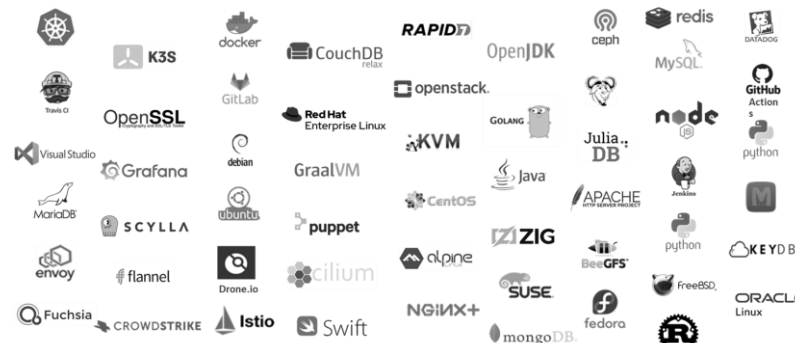
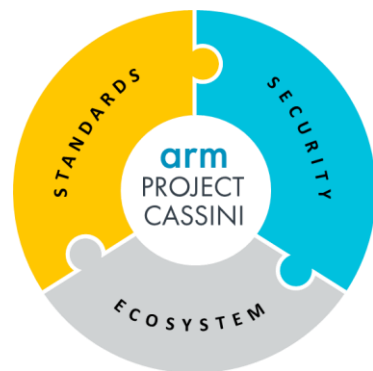
Dell Edge
Gateway (x86 +
HW TPM)



Raspberry Pi
+
Infineon HW
TPM

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A secure baseline for edge platforms with Project Cassini



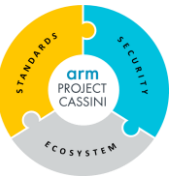
RoT abstraction and security services for cloud native applications

Security features surfaced to software according to industry standards

Standard, off-the-shelf Operating Systems and hypervisors

Build trust in the ecosystem that chips and devices have a security baseline aligned with standards and use case requirements

Prove out industry use-cases for the edge with Proj. Cassini



Broad Ecosystem Support



ADIANTECH altran CO+PRO BROADCOM Compulab EUROTECH ECC

FOXCONN GlobalLogic Honeywell Hongdian IoTech Lenovo Linaro MARVELL

NORCO nuvoTon NXP RAD Rambus RANCHER Rockchip Red Hat

SoftBank SolidRun SUSE Telco Systems ubuntu vmware vodafone wipro

AMPERE ASUS IoT bamboo cadence CyberTAN GIGABYTE Lanner MEDIATEK

arm SystemReady Microsoft NECOM NUVIA OpenGCC PEGATRON PINE64 Raspberry Pi SIPEARL


SYNOPSYS wiwynn

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Engage with Arm and the wider ecosystem through PoCs


www.arm.com/project-cassini



Industrial IoT Gateways

Remove the silos caused by technology differences and lack of standardization with the consistency and predictability delivered by Project Cassini.


Read Reference Implementation



Smart Cities

Explore how the Secure Municipal, Agricultural, Rural, and Telco Edge Research (SMARTER) stack leverages Project Cassini for virtualized, multi-tenant architectures for Intelligent Gateways for smart city architectures.


Read Reference Implementation



Software Defined Embedded Edge

Apply various DevOps approaches to embedded edge development, including the DevOps design methodology known as a Service-Oriented Architecture (SOA).

Read Reference Implementation



Orchestrating Apps at the Edge

Bring a secure cloud-native experience to edge development, using Kubernetes and CI/CD systems to create a streamlined method for enabling application delivery, maintenance, and control to any number of edge and terminal devices.

Read Reference Implementation

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Thank You

Danke

Merci

谢谢

ありがとう

Gracias

Kiitos

감사합니다

धन्यवाद

شكراً

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