

# How to Build a Sovereign AI Environment

accenture  Red Hat

# Accenture Innovation Hubs with Red Hat Technology that are open for onsite Visits



## Large number of implemented Red Hat use cases on data sovereignty and AI, e.g.,

- Red Hat for Sovereign Cloud technology blueprint
- VMware to RH OpenShift Virtualization: a migration strategy
- Ansible Automation for network and security
- Generative AI to reinvent and improve IT operations
- Operational Resilience with Red Hat technologies (Antifragility)
- Red Hat Openshift AI to support Private AI scenarios
- Confidential AI
- ACIC Private AI Platform
- Confidential Containers on OpenShift on Baremetal



## The Lab aims to solve the most complex issues for governments and citizens using data & (Gen)AI in a secure and responsible way

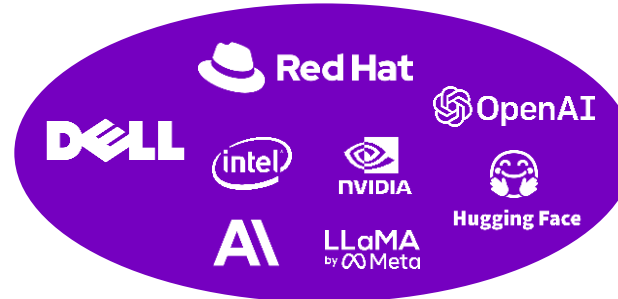
**190+** curated public & commercial datasets

**30+** Client workshops in 2025

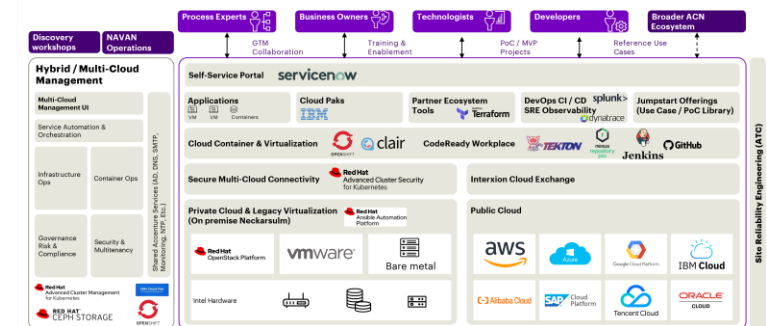
**80+** Demo for rapid AI & GenAI prototyping

**15+** Project delivery in 2025

Harnessing cutting-edge technology through strategic partnerships



## Red Hat reference architecture demo lab within the STACKIT datacenter.



**STACKIT**  
A Brand of Schwarz Digits

# Cornerstones for Sovereign AI Environments

Self-hosted large language models (LLMs) offer enhanced control, privacy, and customization for specific use-cases and data security requirements



## Model & Data Sovereignty

- Data must not be processed outside the company due to compliance or strategy
- Ensure model exclusivity to avoid unintentional knowledge transfer via shared models
- Where AI models are uncooperating critical IP, a zero-trust approach can ensure long-term success



## Customization and Control

- Full transparency of models and data are supporting transparent decision-making processes and enhance reporting to comply with regulations
- Customization with model fine-tuning and FM training are key to generate the most value and having the best results



## Pricing

- SaaS providers usually price their services in amount of business transactions, amount of data transferred, and amount of data stored
- The cost of the current LLM solutions can add up quickly, with climbing consumption
- Private AI and an open-source approach can be very cost effective



## Mitigate vendor lock-in

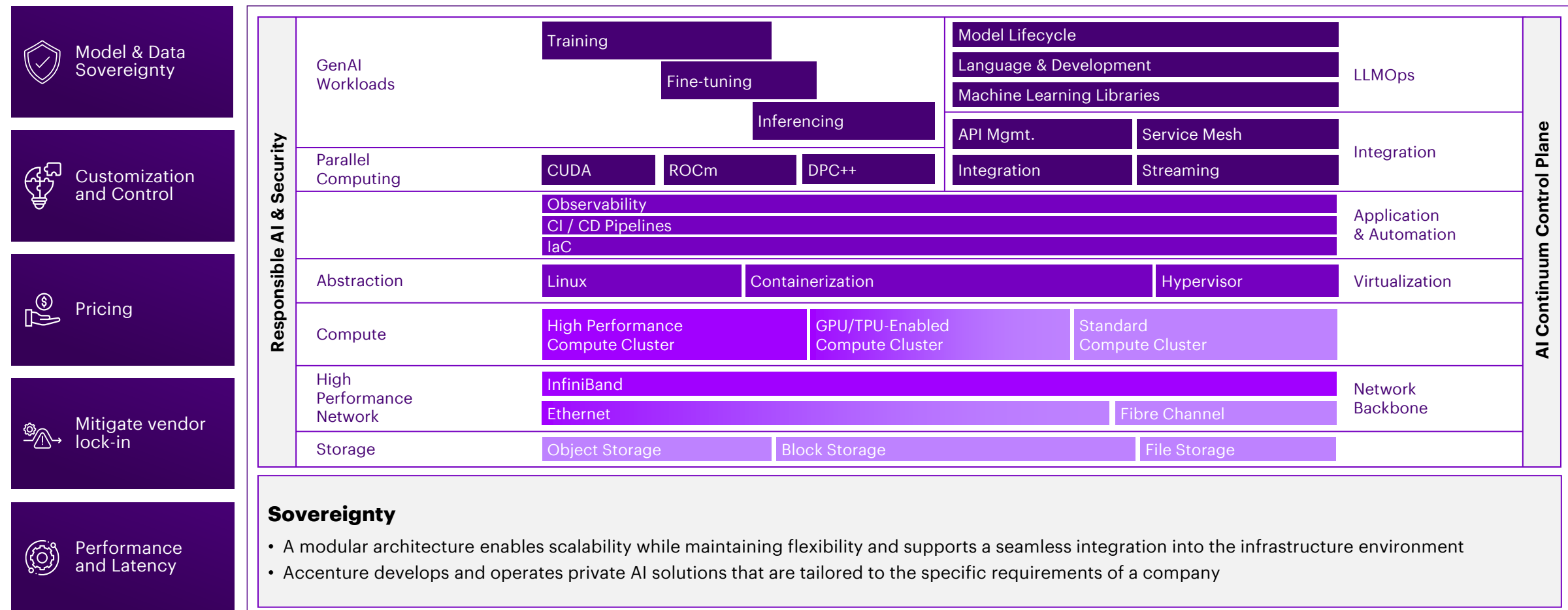
- Avoid proprietary APIs / complex model integrations
- Follow industry standards and your own strategy at your pace



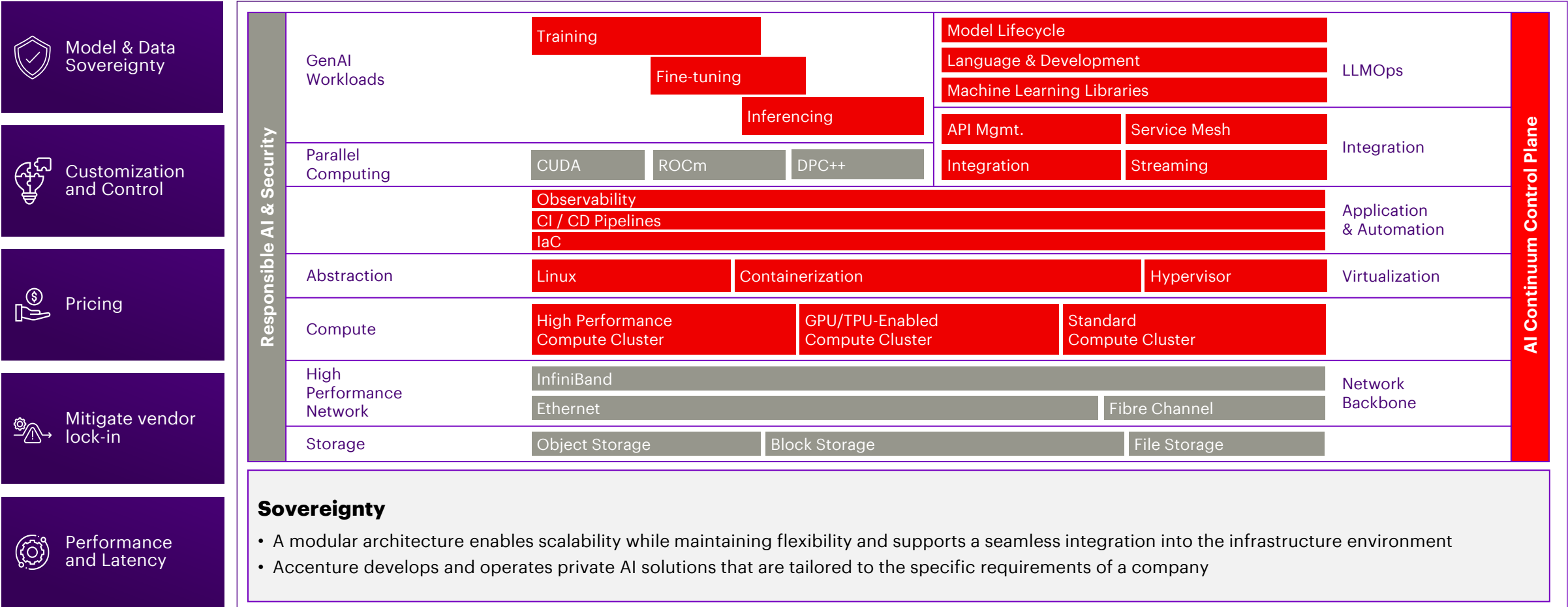
## Performance and Latency

- Hosting the model on-premise has reduced latency and is independent internet connectivity
- The computational demand of state-of-the-art (open source) foundation models can be met with out of the shelf hardware solutions
- The trend towards task specific and smaller LLMs is easing the overall computation demand for productive systems

# The Accenture end-2-end view on the building blocks of a sovereign AI offering

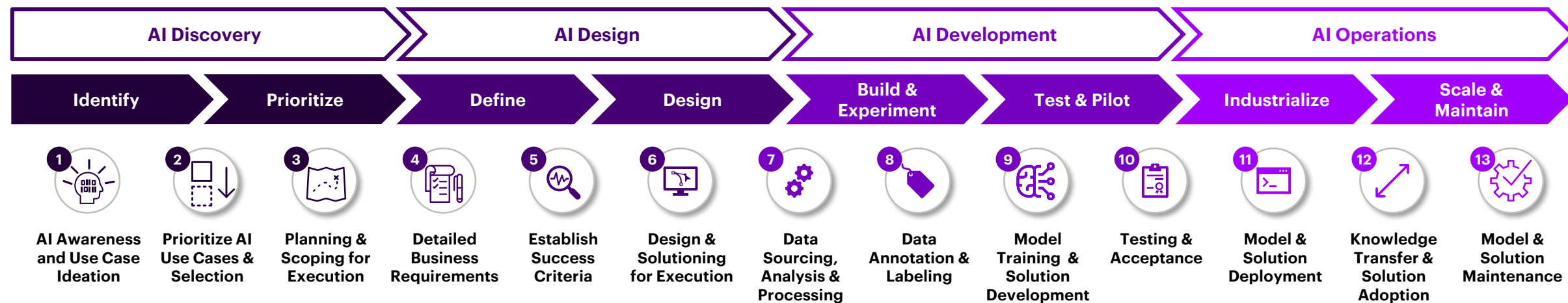


# Red Hat offers a comprehensive set of functionality to establish a production-ready sovereign AI offering



# Accenture has the means to bring a sovereign AI platform to live through its scalable Application Factory

Steps to be repeated for each use case



OBJECTIVES

- Generate a use case backlog based on the business needs
- Review, quantify and prioritize the use cases
- Gather high-level requirements, scope and develop execution plan

## AI Design

- Document detailed business requirements for selected use case
- Establish measurable success criteria aligned with the defined business objectives
- Define the use case solution and modeling techniques

## AI Development

- Identify and prepare high-quality datasets
- Create labeled dataset to provide structured data of the AI model
- Develop and train the AI model using the annotated dataset
- Ensure that the AI model performs well against real-world data and use cases

## AI Operations

- Deploy AI Model into target Environment
- Ensure adoption of the use case by key business stakeholders and technical knowledge transfer to D&T AI team
- Monitor solution and ensure maintenance activities are completed

TEAM

- SME (Hybrid)
- AI Lead (Onsite)
- Project Manager (Onsite)
- Business Consultant (Onsite)
- Data Architect (Offsite)
- Change Management (Hybrid)

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# Take the next step – learn more now!

  Red Hat