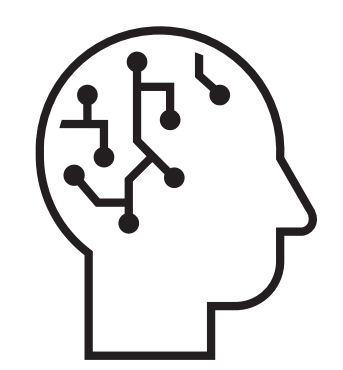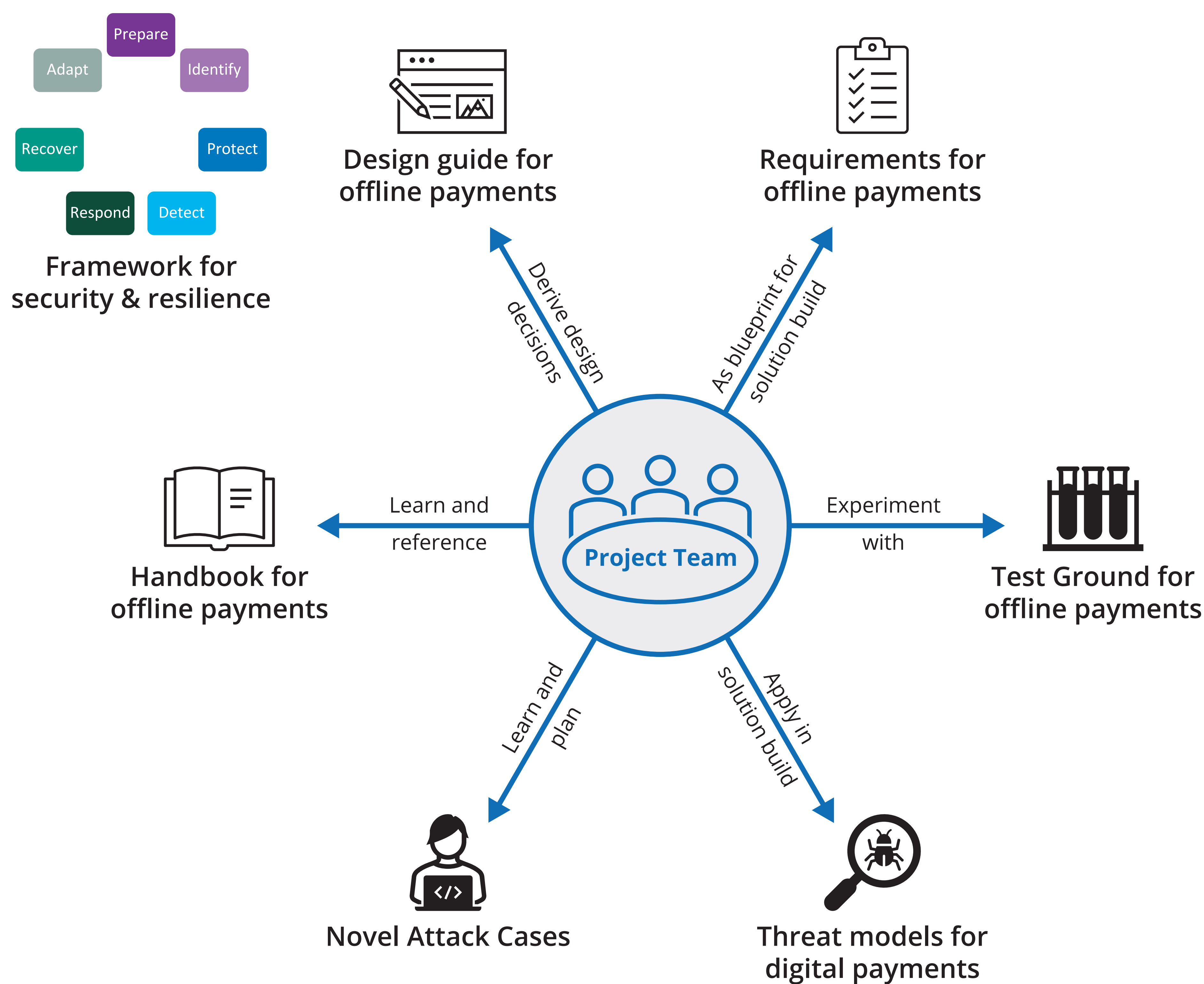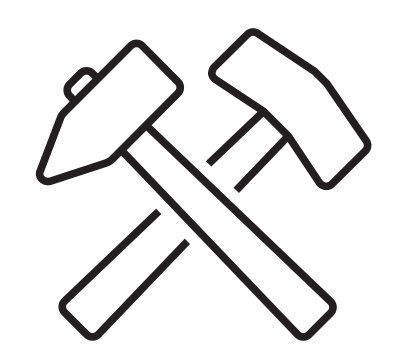# Project Polaris

Secure & resilient digital payment systems, online and offline

Security and resilience are utmost important for payment systems, and offline payment could be an important strategy for achieving such objectives. Project Polaris aims to provide practical tools to support central banks in these areas.

Adapt and Apply the Polaris Framework

Prepare
Adapt
Identify
Recover
Protect
Respond
Detect

Framework for security & resilience

Design guide for offline payments

Requirements for offline payments

Derive design decisions

As blueprint for solution build

Handbook for offline payments

Learn and reference

Project Team

Experiment with

Test Ground for offline payments

Learn and plan

Apply in solution build

Novel Attack Cases

Threat models for digital payments

Close knowledge gap in central banks on new payment technologies

Deliver high-value body of work as public good
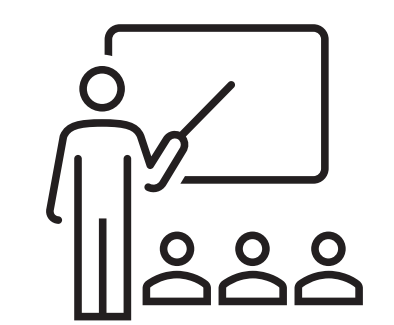
Support central banks in developing modern payment solutions

Cybersecurity

A Framework

- Based on exiting frameworks on cybersecurity and resilience
- Highlight emerging threats facing payment systems
- Advocate modern practices for automation and adaptability
- Define roles and responsibilities across the ecosystem

Threat models

- Analysed novel cyber attacks against crypto assets to identify gaps in existing threat framework
- Collaborate with industry experts to fill the gaps
- Leverage updated threat framework to develop threat models for offline payments and token arrangements

Offline payments

Stepwise toolset

- A handbook that provides comprehensive knowledge and considerations for design and build
- A design guide for making design decisions based on policy objectives and jurisdiction profile
- A set of requirements for building or selecting a solution

Configurable prototype

- Demonstrate how offline payment could work and be configured
- Support smart phone and smartcard form factors
- Work with value- or token-based design
- Offered as a public good to central banks

BIS Innovation Hub