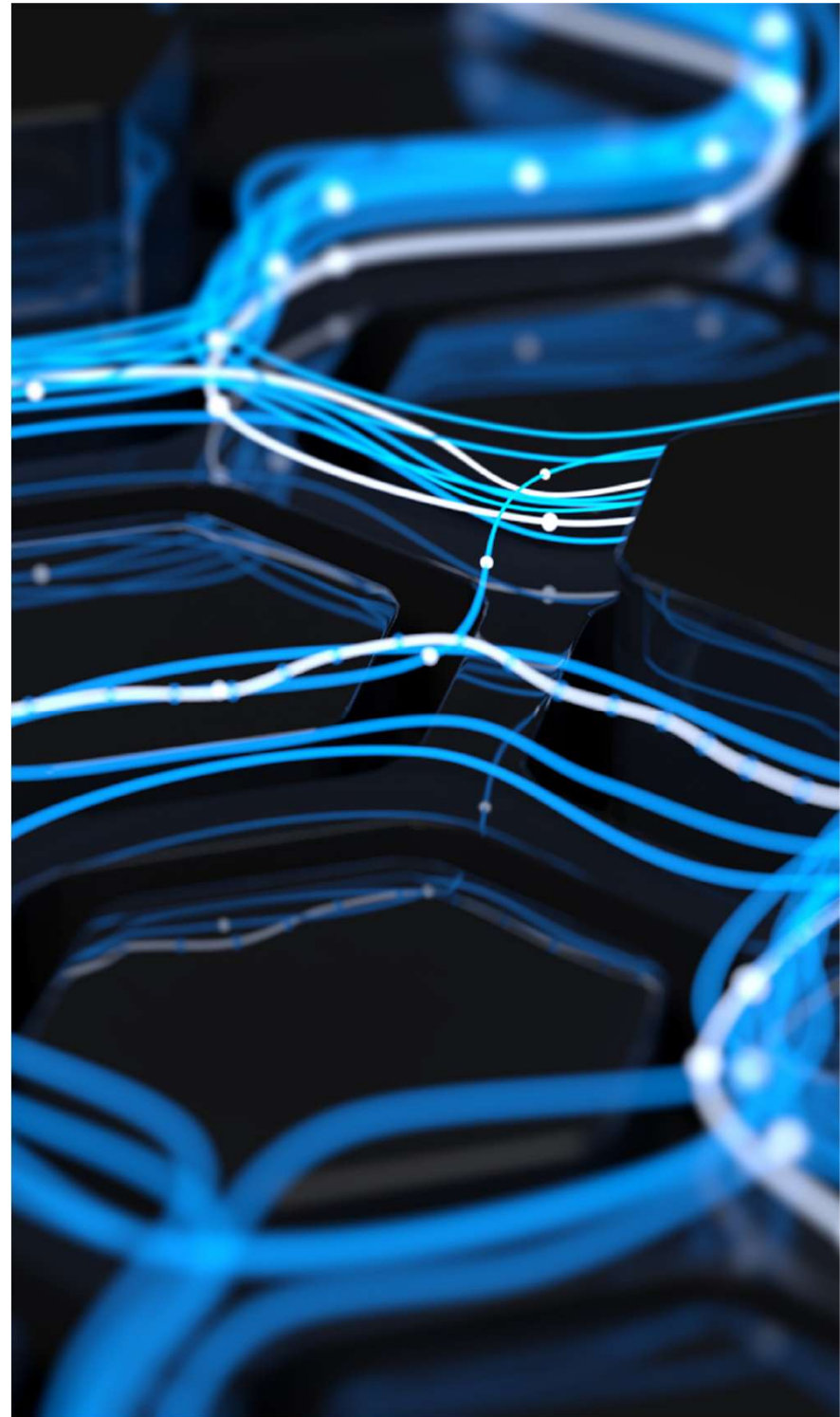




# Overview of the BIS Innovation Hub





## 3-fold Mandate and output types

### Mandate

Identify critical trends  
in financial technology



Develop public goods



Serve as a focal point for  
central bank collaboration



### Outputs

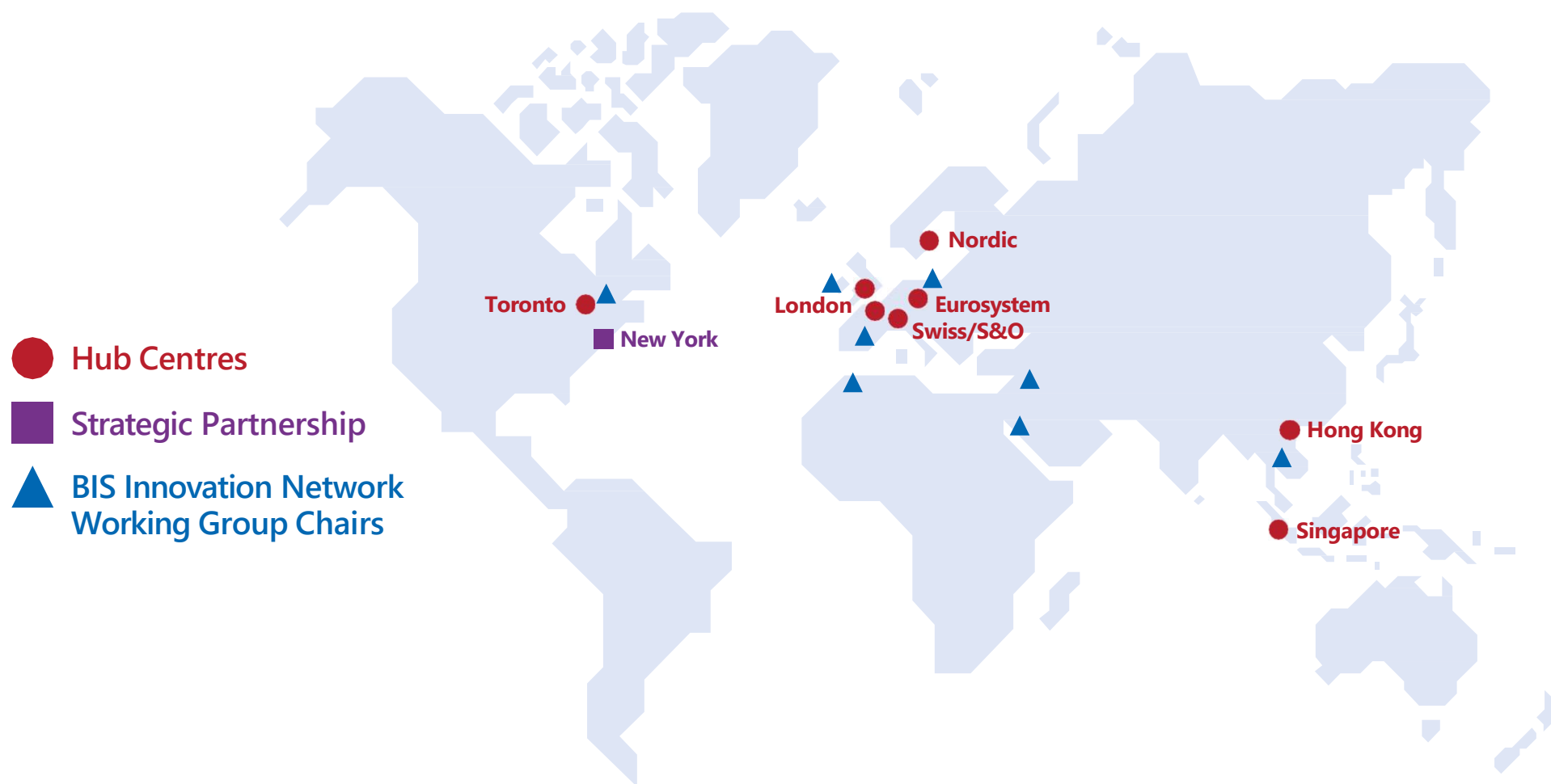
Coordinated horizon  
scanning activities

Integrated projects  
and paths to reach  
mature solutions

Events and tools  
for central bank  
collaboration



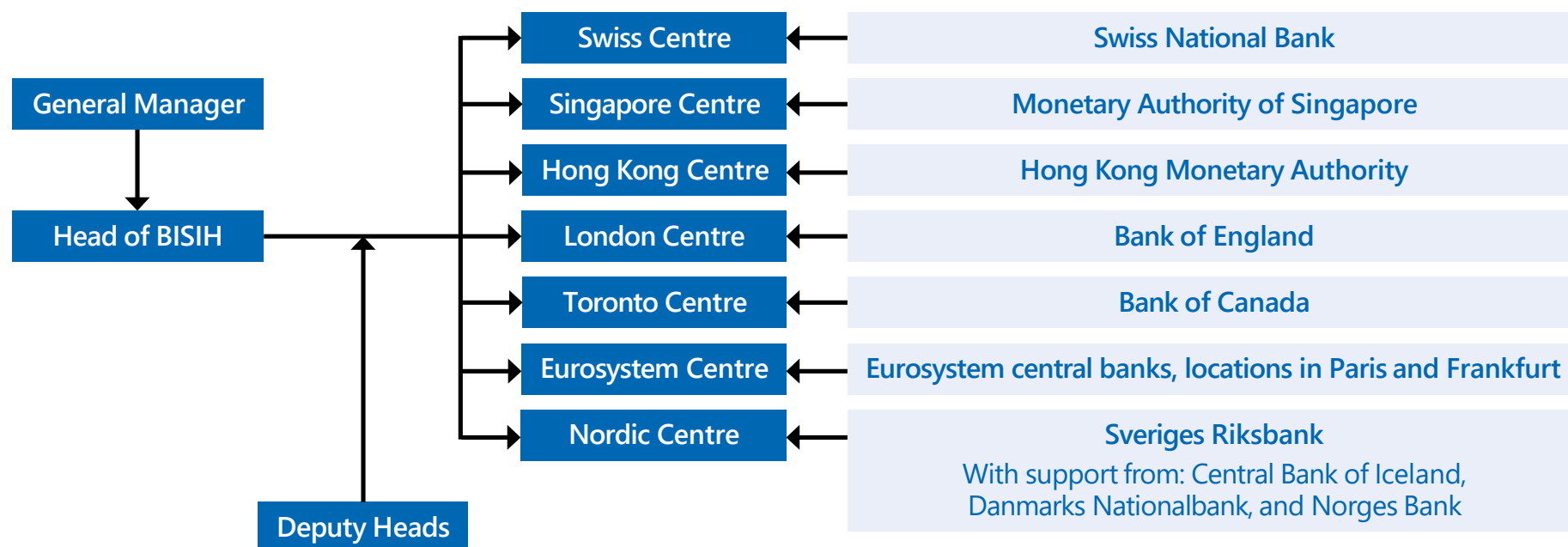
## Global footprint of 7 Centres and 6 Innovation Network working groups





## BISIH's structure and host central banks

The Centres operate in partnership with host central banks by integrating knowledge, human resources, and costs.





# Agile processes for innovation and collaboration

The BISIH's results are grounded in long-established innovation working methods such as design thinking, scrum and other agile methodologies and driven by active collaboration.



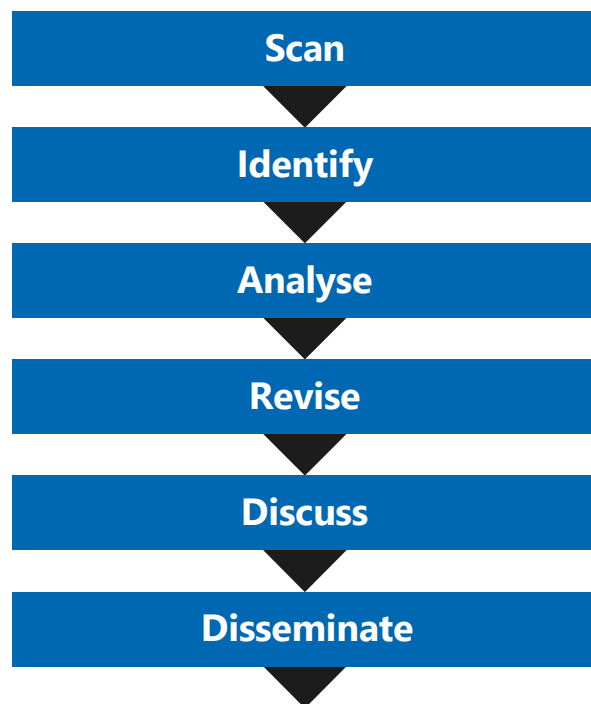


## Results so far

### First mandate, Horizon Scanning

The BISIH is strengthening its established work in identifying critical trends by following a systematic horizon scanning process.

- Our first hub wide report with findings is underway.



#### Trends on the horizon



Evolution of computational infrastructures (e.g. cloud, edge, green and quantum computing).



Growing power and significant scale up of different use cases and applications of generative AI.



New sophisticated frontiers in cybercrime and arising critical vulnerabilities.





































Challenges in recruiting and developing human capital with necessary technical and interdisciplinary knowledge.



# Results so far

## Second mandate, toolkit approach to projects

Projects are designed and delivered against central banks' core mandates.

<b>1</b> <b>Provision of money</b> 	<b>2</b> <b>Monetary policy</b> 	<b>3</b> <b>Payment infrastructure</b> 	<b>4</b> <b>Financial stability</b> 	<b>5</b> <b>Regulatory/ Supervision</b> 
Project	Project	Project	Project	Project
Description	Description	Description	Description	Description
<b>Helvetia</b>  Settling tokenized assets using cb settlement asset	<b>Insight</b>  Monitor global value chains	<b>Agorá mBridge</b>  Unified ledger	<b>Atlas</b>  Monitor crypto	<b>AISE</b>  Virtual assistant for financial supervisors
<b>Icebreaker</b>  Cross-border retail payments	<b>Neo</b>  Predictive analytics	<b>Aperta</b>  Interoperability through open finance	<b>Dynamo</b>  Stablecoins for supply chains	<b>Aurora</b>  Cross-border AML and anti-financial crime
<b>Jura</b>  Cross-border settlement with cb settlement asset	<b>Spectrum</b>  Inflation forecasting	<b>FuSSE</b>  Modern financial infrastructures	<b>Genesis</b>  Green bond tokenisation digital platforms	<b>Ellipse</b>  Regulatory/ supervisory
<b>Rialto</b>  FX using cb settlement asset		<b>Leap</b>  Quantum proofing	<b>Pyxtrial</b>  Monitor stablecoins	<b>Gaia</b>  Stability risks of climate change
		<b>Mariana</b>  Automated FX	<b>Raven</b>  Cybersecurity and cyber resilience maturity	<b>Hertha</b>  Financial crime
		<b>Meridian FX</b>  Synchronised settlements	<b>Rio</b>  FX Markets	<b>Mandala</b>  Compliance
		<b>Nexus</b>  Instant cross-border payments		
		<b>Polaris</b>  Offline payments		
				<b>Key</b>  Completed  Ongoing

Note that not all the BISIH projects are presented on this graph and one project might fit into more than one category.





## Results so far

### Third mandate, focal point for central bank collaboration

The BISIH serves as a focal point for collaboration by creating a shared platform for events, various tech and collaboration tools and supporting key international policy initiatives.

BIS Innovation Network	BIS Innovation Summit	BIS Open Tech	Project partners (public and private sector) & observers' engagement
G20 Presidency Hackathon support	Contribute to BIS' committees, projects, working groups	International policy initiatives (e.g. G20 programme to enhance cross-border payments)	BIS Publication, podcast
Topical workshops	Community hackathons and workshops	Building community	Speaking engagements





## Results so far

# Value added – the impact of technological change

- ▶ Help understand technological trends and their potential impact for central banks and the financial system.
- ▶ Catalyse innovation through practical experimentation and collaboration with central banks.
- ▶ Foster academic research in technologies related with central bank functions.



... new developments call for central banks' innovations and digital solutions too. In the digital age, central banks will have to become innovators and commit ourselves to digital transformation for the benefit of our economies. In fact, the launch of the BIS Innovation Hub (BISIH) in 2019 is a **testament to this commitment.**"

Speech by Mr Howard Lee  
(Deputy Chief Executive of the  
Hong Kong Monetary Authority)  
at the BIS Innovation Summit 2021,  
23 March 2021



While political intent is important, it is the **implementation of real-world solutions** that really counts. Fortunately, a number of proposals for ways of linking faster payment systems together at an infrastructural level have been developed. These include the BIS Innovation Hub's project "Nexus"..."

Speech and discussion by  
Mr Burkhard Balz (Member  
of the Executive Board of the  
Deutsche Bundesbank) in  
cooperation with the Konrad  
Adenauer Foundation and  
Fundación de Investigaciones  
Económicas Latinoamericanas  
(FIEL), Buenos Aires,  
7 March 2024

Thank you

