**SIA** CHAIN



## **SIA**chain

# Managing a Distributed Network on a common infrastructure pattern

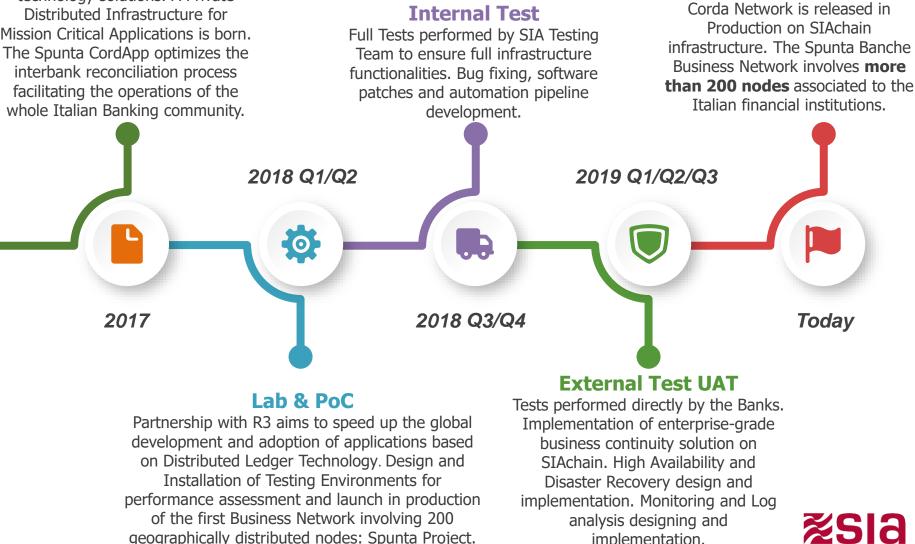
Fillipe Guerra Head of Architecture



SIAchain: A secure private infrastructure based on Distributed Ledger Technology for mission-critical Blockchain applications

#### **Born of SIAchain** Transform ideas into a disruptive technology solutions. A Private Distributed Infrastructure for Mission Critical Applications is born.





@ SIA

**Production** 

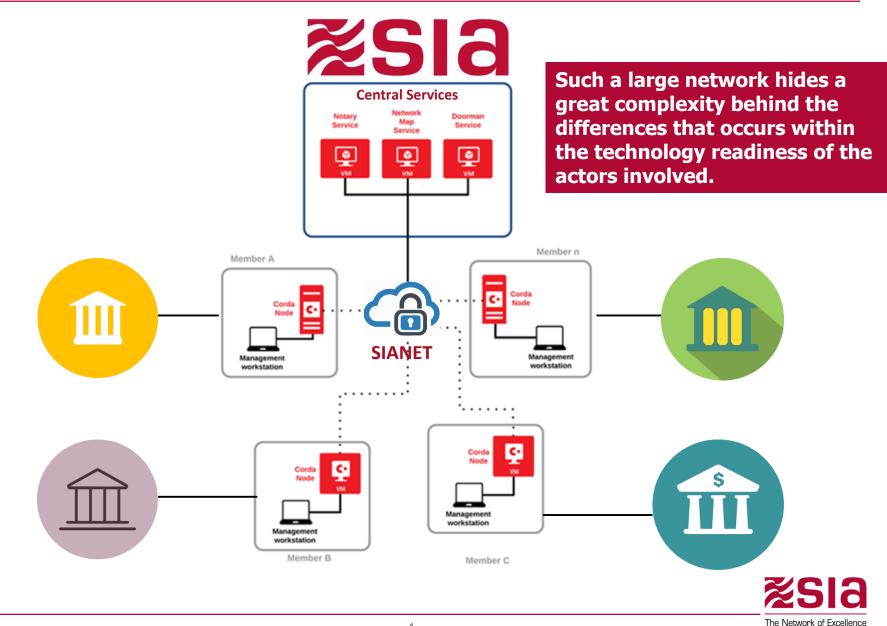
ABILabChain: a Private managed

implementation.

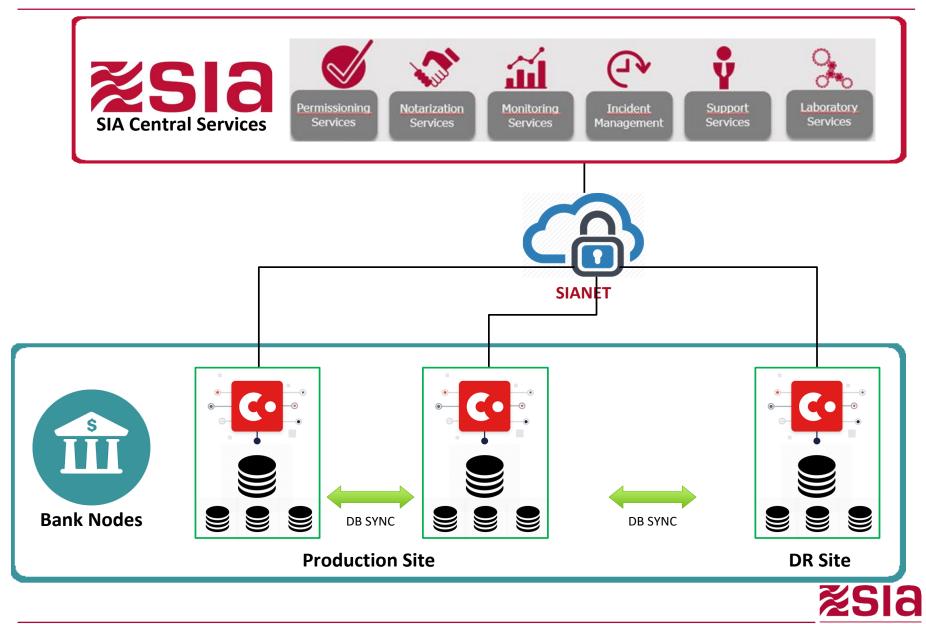
From design to production: the challenges that SIAchain faced along the path

S S S S	Blockchain implementation costs	Finding the most suitable blockchain application is not as easy as a majority of them are not fully developed. Furthermore, the most convenient platforms come at a huge cost in terms of implementation and support.
24	Business Continuity	Most of the Enterprise Permissioned Blockchain platforms dont provide native High Availability and Disaster Recovery support since the ledger is not fully distributed.
	Lack of Partners	Blockchain is quiet novel and understanding its basic principles requires assistance by those that are already knowledgeable. However, getting the right partner is problematic, given the circunstances that most partners are already engaged in other blockchain demands. Therefore one is not likely to get the right kind of solutions.
© SIA	Monitoring and Analytics	Advanced metrics, monitoring, analytics and alerting gives us real-time visibility into the nodes. It also allows us to quickly identify and resolve issues. We have layers of insights not just into our infrastructure stack, but also the underlying protocols, and can quickly work with protocol core devs to remedy network-wide problems.

The infrastructure has been designed taking into account the necessity of making it simpler for end-users and developers to design and deploy their CordApps in a fast, secure and controlled way.

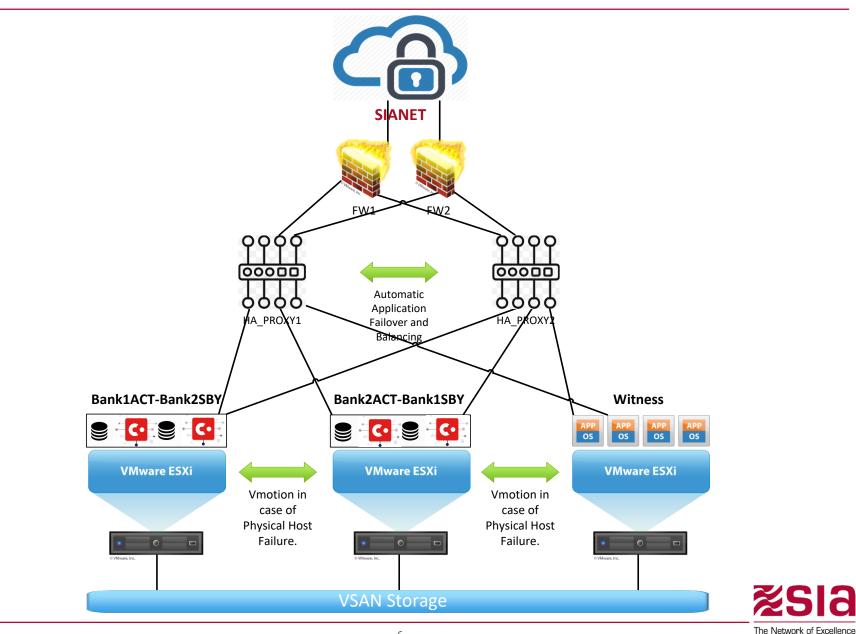


SIAchain's infrastructure is an end to end infrastructure that connects the onpremises nodes to SIA's Central Services

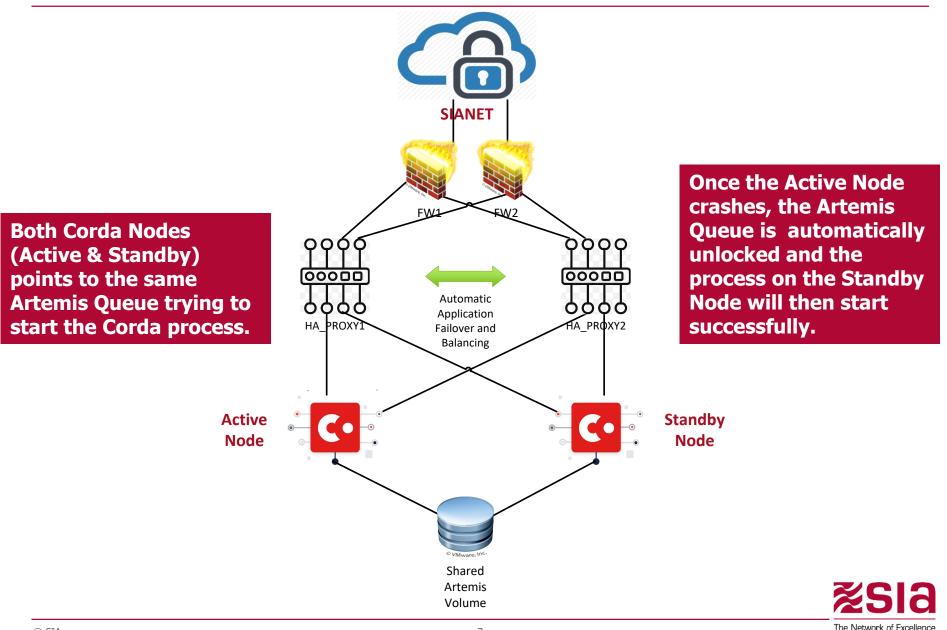


The Network of Excellence

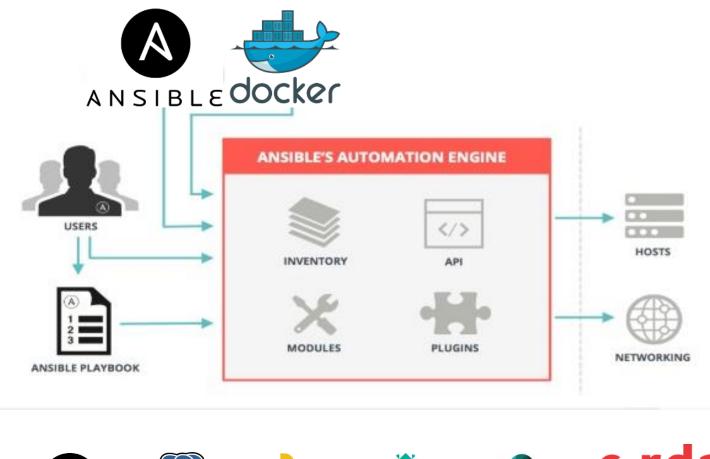
Adding an additional layer of complexity : SIAchain integrates Business Continuity at Infrastructure Level



Redundancy of Corda Nodes has been recognised as a value added feature of enterprise-grade Business Networks



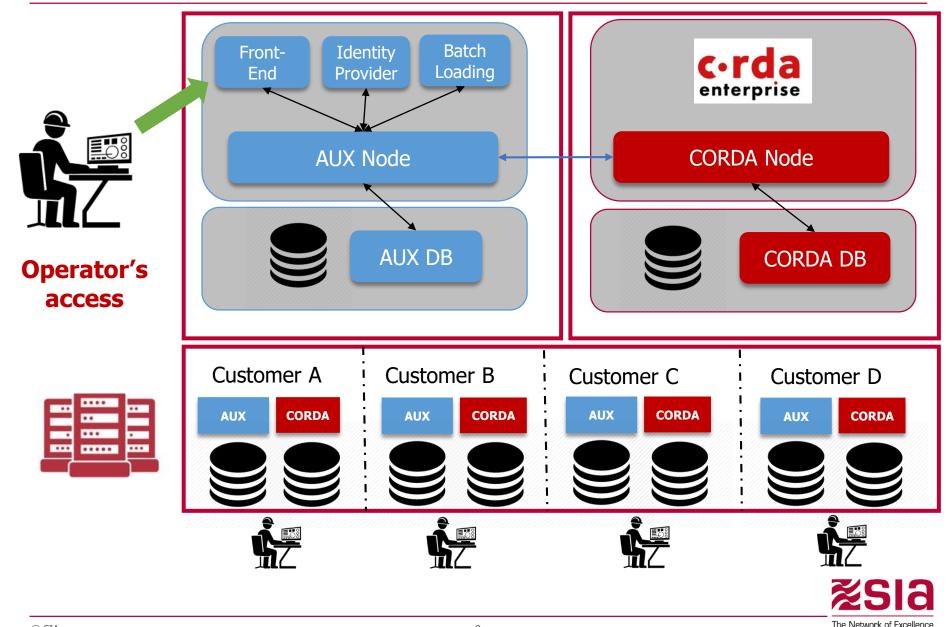
SIAchain's architecture involves a variety of technologies and the technology governance allows SIAS to orchestrate the whole network to be at the same technological readiness



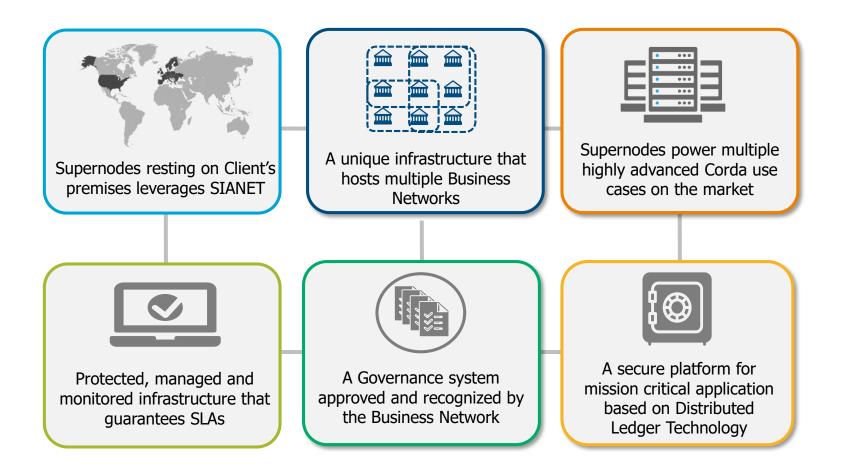




SIAchain Nodes supports also the front-end web server for accessing the blockchain ledgers in order to facilitate the Participant to easly&quickly join the Business Network



SIA has designed a multi-DLT infrastructure based on a private network of nodes residing on Client's premises supporting permissioned communities







## The Network of Excellence

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