FlexSpace Ecosystem

Smart City Applications: Smart Parking, Smart Management, Smart Building

WITRAFI

Tolotech MOBIILIA KULUNHALLINTAA

Fiksu Kalasatama Joustotila flextila.com

SOFOKUS

Kliffa INNOVATIONS

Varaamo Helsingin kaupungin tilanvarauspalvelu

TIMMI tilavaraukset kurssi- ja leiri-ilmoittautumiset avustukset järjestörekisteri

elisa

City of Helsinki

Service Discovery
Service Consumption

API

IoT BnB
Service Catalogue

Spaces

Payments

Facility

Security

Locks

Service Meta Data

Catalogue hosting

elisa

Catalogue admin

ControlThings Excellence Embedded

Service Publishing
Feedback & benefits

API

Smart Locks

Tolotech MOBIILIA KULUNHALLINTAA

LUKOTON

ROLLOCK YOUR SMARTER ACCESS

iLOQ

Payment:
PayTrail
PayPal
Mobile Payment

Other service providers:
RESPA

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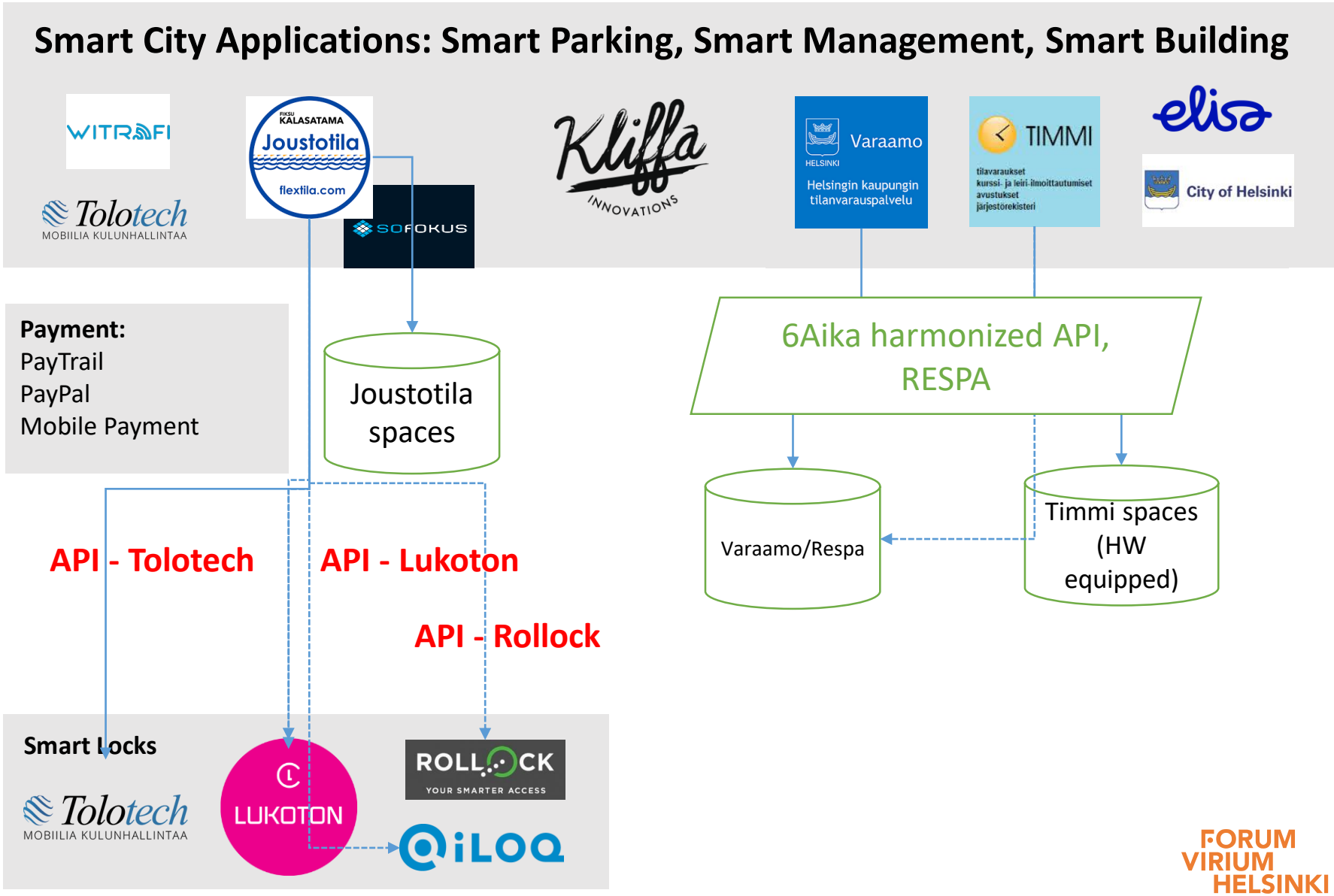
FlexSpace Current State



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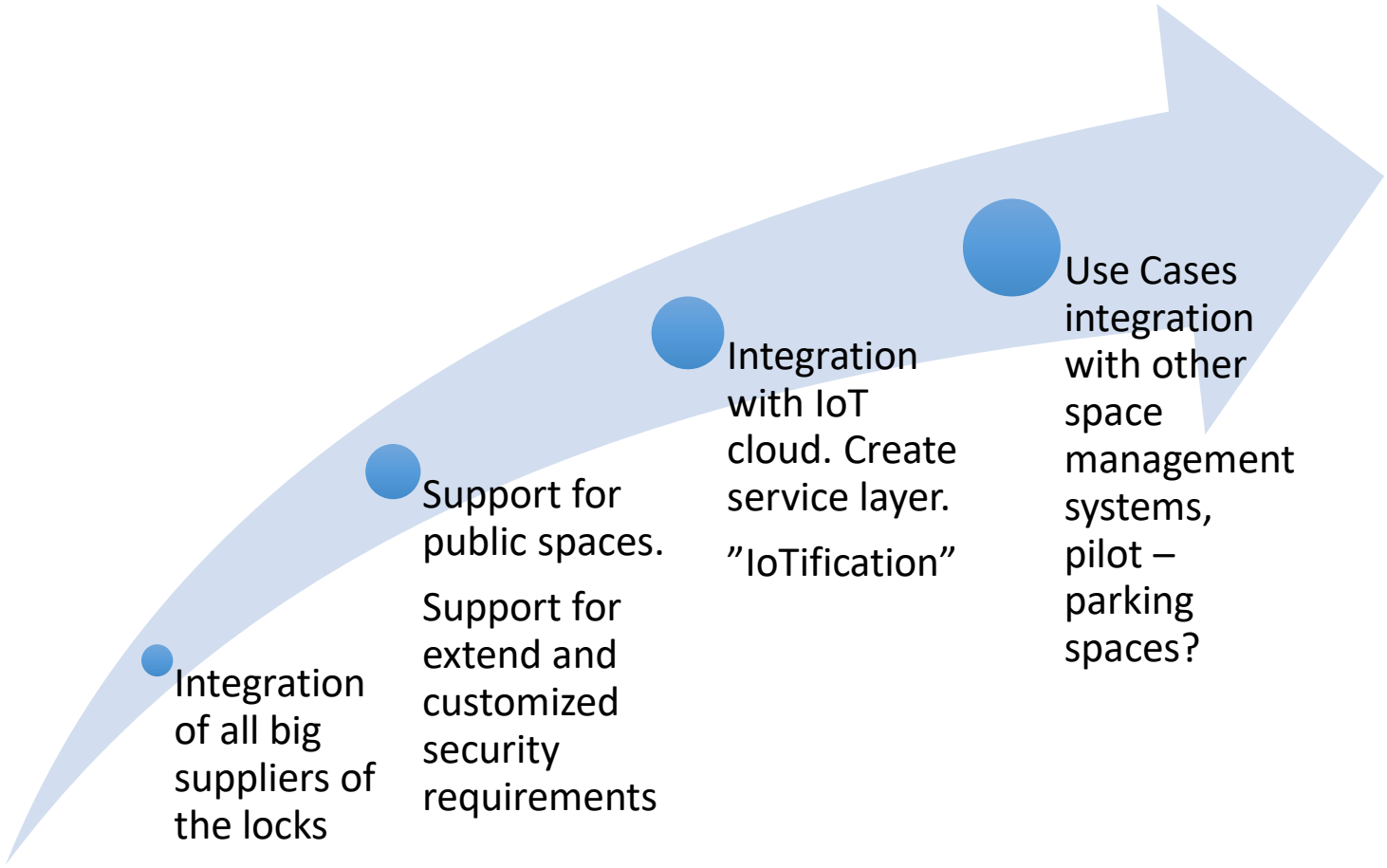
Shared Spaced Interfaces

API	Description	Providers	Currently	Goal
Access to shared spaces	API to select and reserve shared space, including access rights, calendar, locking type	FlexSpace	Proprietary, closed	Open, commercial
		RESPA	Open, free	Open, free, 6AIKA Harmonized
Open all type of locks	Standard API to open any type of lock, support for new locks without programming	FlexSpace	Proprietary, closed; 1 lock supported, working on 2nd and 3d locks	Open, commercial
		Elisa	*Lukoton*	Hosting of Lock Service in IoT cloud
Deploy new type of lock	Standard API to deploy new type of lock to Lock Service	*Elisa*	-	IoT Cloud service
IoT data API	Access data from sensors	*Elisa*	-	IoT Cloud service

Ecosystem Stakeholders

Application	Spaces	Interfaces	Goals	IoT technologies	Pricing model	Ecosystem role	Current State
Kliffa	Unclear/public	To be harminozed with 6Aika?	Solution for shared space?	Not knowgement	Unclear	Ecosystem ventures, research and marketing	Market study for users' needs
Varaamo	Public, Helinski area	RESPA, to be harmonized with 6Aika?	Solution for the most public spaces in Helsinki	Not known	Free of charge, in future transaction based	Front end for Respa, public space management	Available
Flextila	Private, commercial spaces	Proprietary	To expand to the commercial level	SmartLocks	Transaction based	E2E solution for private spaces, Smartlocks integrator?	E2E use case for renting/booking, 1 payment method and one lock is supported
Timmi	Public	Private, integration with RESPA and 6Aika	To expand regionally	Proprietar HW for locks	Selling of solutions to the public organizations?	Platform for public spaces	Available, platforms including authorization, groups, etc
Elisa	Public, private, industrial	Proprietary	IoT and cloud service provider	Connectivity and subscription cloud-based platform and services	Subscription ?	Infra platform, smart building service provider, smart service provider	IoT Cloud platform, industrial use

Roadmap



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