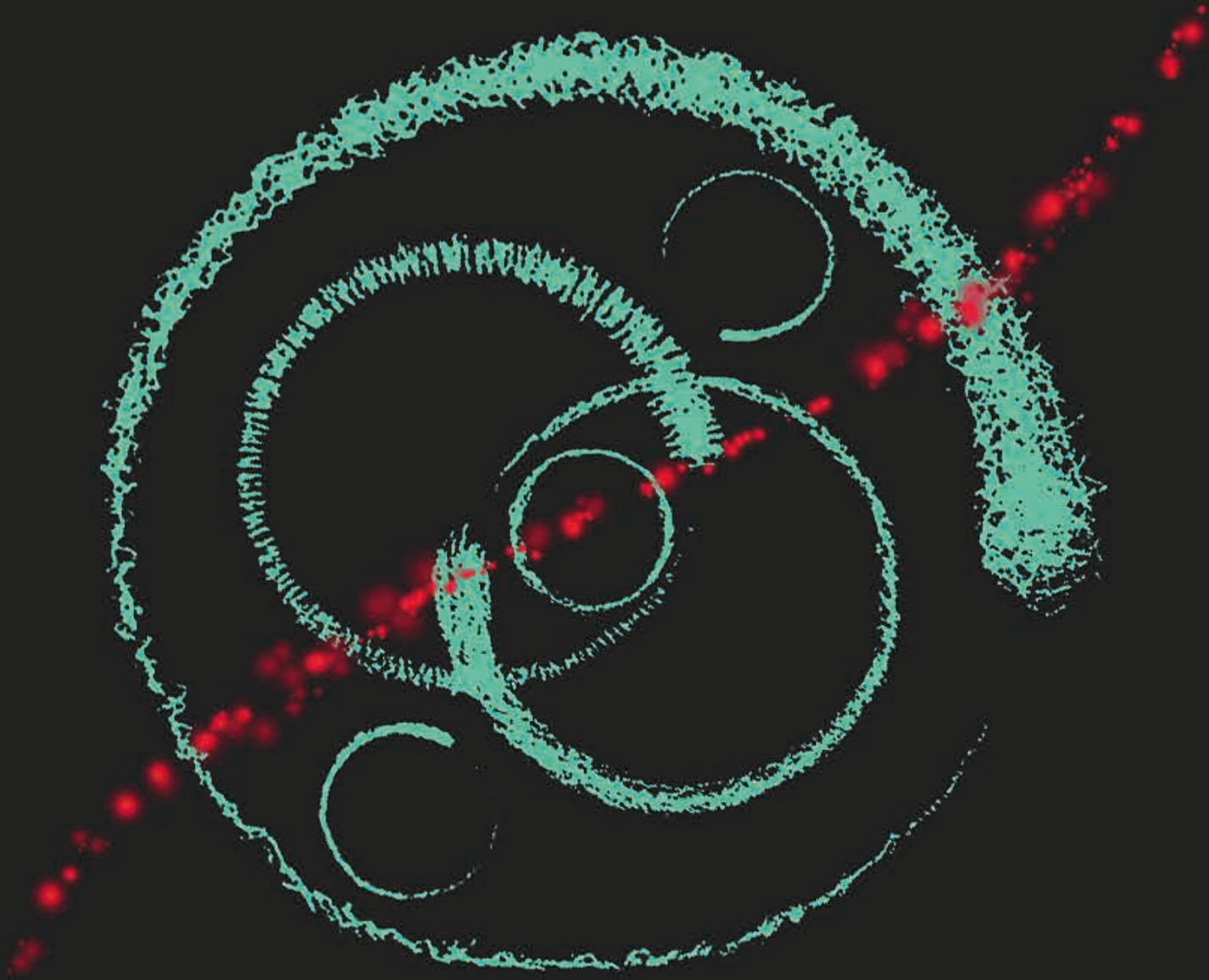# The Stories of the New Silk Route

Facilitating interaction between global and local within the Belt and Road Initiative.

Kseniya Otmakhova
4149297
Gregory Bracken
Azadeh Arjomand Kermani

P5 Presentation

Complex Cities
Department of Urbanism
TU Delft

Thesis research topic

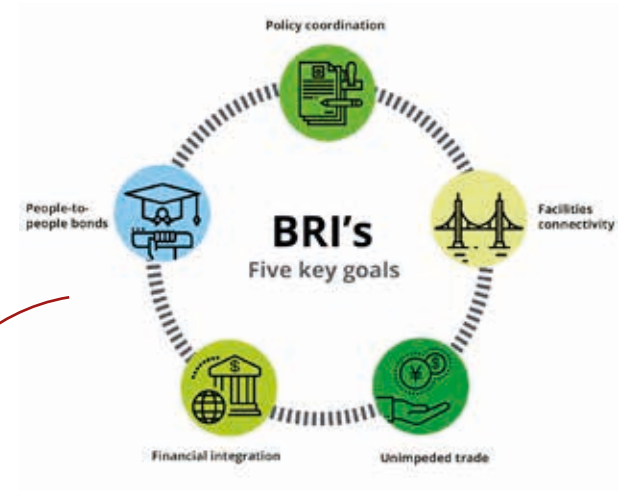[**China's Belt and Road Initiative**
Revival of the Silk Road]

Ancient Silk Route

Belt and Road Initiative

Win-win collaboration

BRI's Five key goals
- Policy coordination
- Facilities connectivity
- Unimpeded trade
- Financial integration
- People-to-people bonds
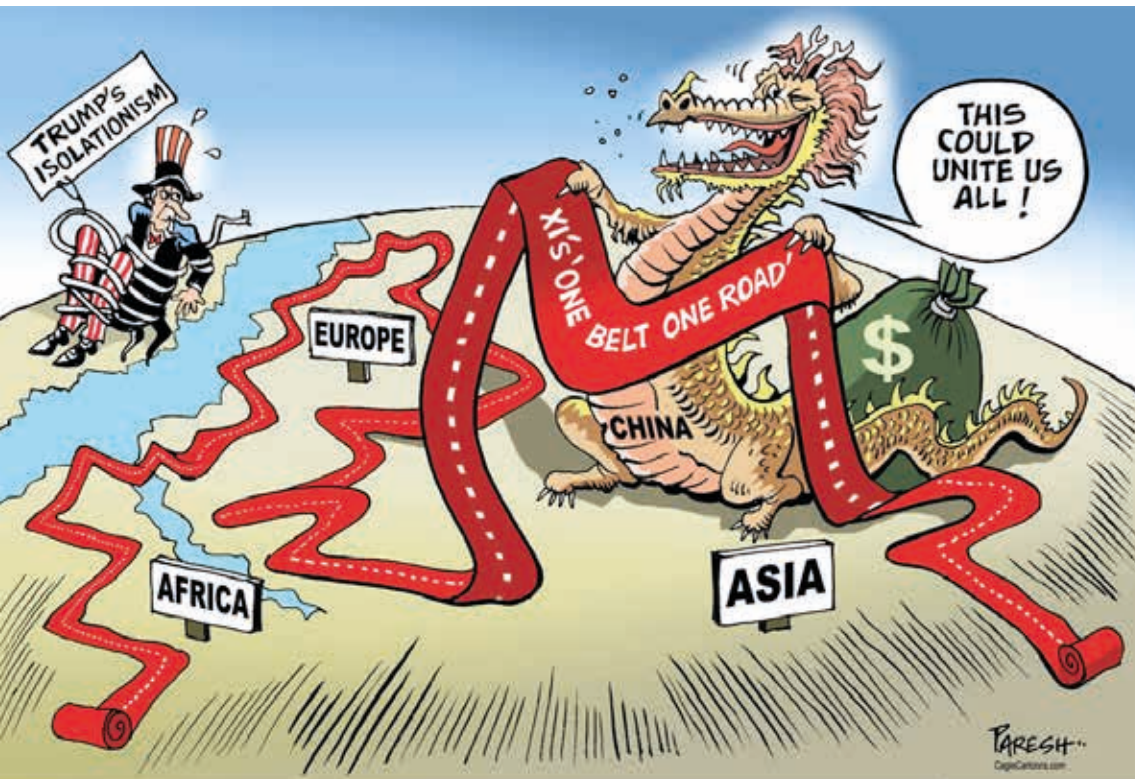
Revival of the Silk Route
China's Belt and Road Initiative
Win-win Collaboration
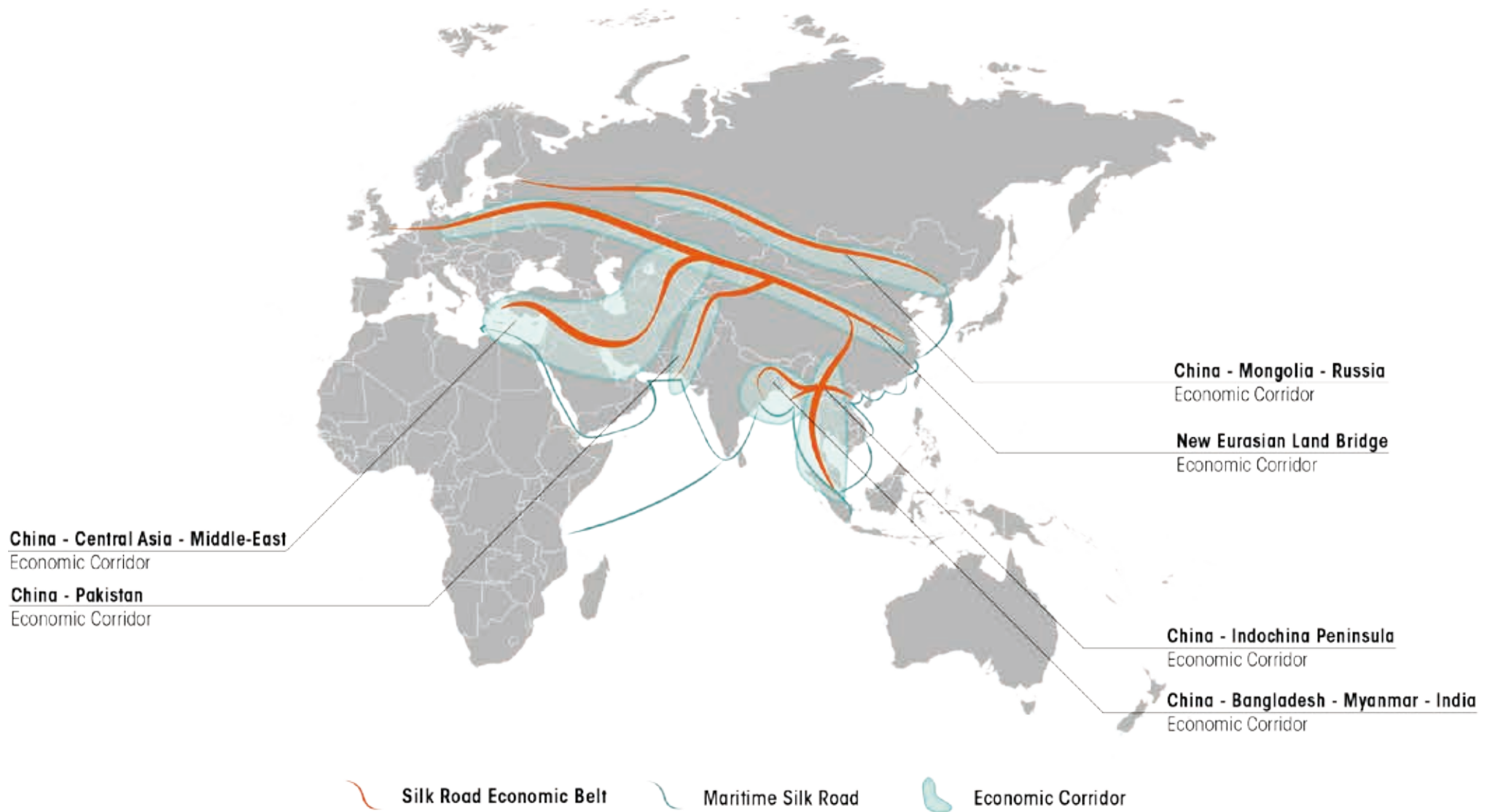
Geopolitic, infrastructural mega-project

win - win

colonialism

BRI - Land and Sea Routes

China - Mongolia - Russia
Economic Corridor

New Eurasian Land Bridge
Economic Corridor

China - Central Asia - Middle-East
Economic Corridor

China - Pakistan
Economic Corridor

China - Indochina Peninsula
Economic Corridor

China - Bangladesh - Myanmar - India
Economic Corridor

Silk Road Economic Belt   Maritime Silk Road   Economic Corridor

Why then Belt and Road as a topic of urbanism research?

BRI Instrumentts
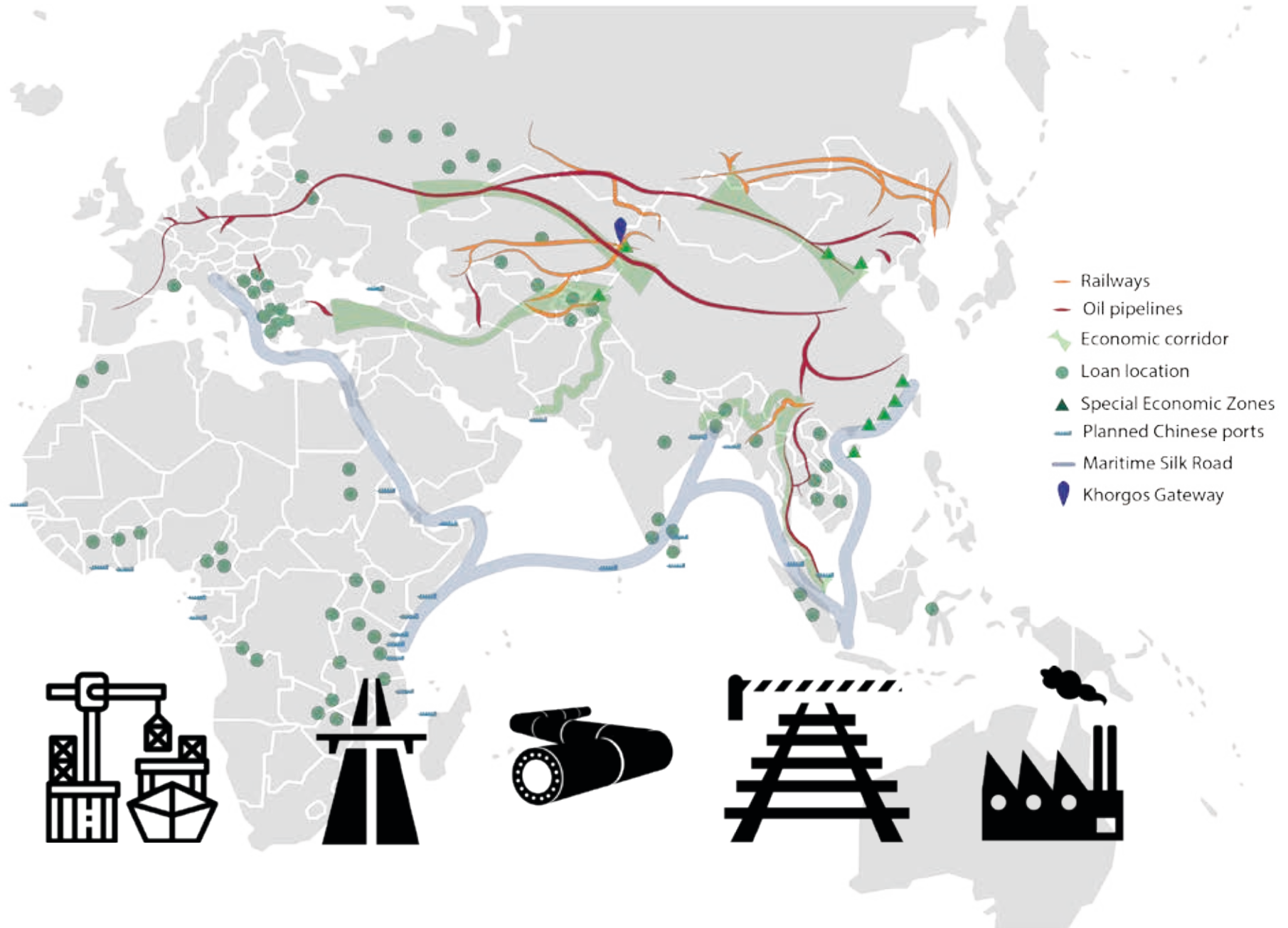
Railways
Oil pipelines
Economic corridor
Loan location
Special Economic Zones
Planned Chinese ports
Maritime Silk Road
Khorgos Gateway

Gwadar Deep **Sea Port**, Pakistan, since 2016
Source: http://balochistanvoices.com/2016/06/gwadar-port-source-of-potential-benefits/

Khorgos Gateway **Dry-Port**, Kazakhstan, since 2015
Source: http://www.atimes.com/article/atc-chinas-landlocked-port-in-kazakhstan-doesnt-need-water-to-succeed/

Oil Pipelines and Installations
Source:https://www.mnenergyservices.com/above-ground-pipelines.php

Powerplant Balochistan, Pakistan, since 2018
Source: http://parchinanews.pk/pakistan-power-plant-to-get-coal-terminal-by-chinese-companie

Spatial implications

Gwadar Deep **Sea Port**, Pakistan, since 2016

Source: http://balochistanvoices.com/2016/06/gwadar-port-source-of-potential-benefits/

Khorgos Gateway **Dry-Port**, Kazakhstan, since 2015

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Oil Pipelines and Installations

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Source: http://profchinanews.pk/pakistan-powerplant-to-get-coal-terminal-by-chinese-companies

Impact on daily lives

Thanaleng Station is part of the first international railway link serving Laos, connecting the country to Thailand. Tha na Lang village, located just outside Laos capital Vientianne is proud hosing this, for now merely touristic atrraction, that also serves as a wedding location for the local inhabitants.

Gwadar Deep **Sea Port**, Pakistan, since 2016

Source: http://balochistanvoices.com/2016/06/gwadar-port-source-of-potential-benefits/

Khorgos Gateway **Dry-Port**, Kazakhstan, since 2015

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Powerplant Balochistan, Pakistan, since 2018

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Urbanisation

Gwadar Deep **Sea Port**, Pakistan, since 2016

Khorgos Gateway **Dry-Port**, Kazakhstan, since 2015

Oil Pipelines and Installations

Powerplant Balochistan, Pakistan, since 2018

Kilamba New City in Luanda, Angola was developed by Chinese company CITIC and designed to house 500,000 people.

A house in the middle of a newly built road in Wenling, in China's Zhejiang province, in 2012.

Large scale globalisation driven urbanisation

"[...] our most advanced contemporary environments appear *repetitive and uniform.* [...] However, the environments we produce today shelter a society that prides itself on *individual freedom of choice and self expression.*
This betrays a **misalignment** between our present **social culture** and its **physical environment**.

- Habracken, 2016.

Where are the world's newest cities ... and why do they all look the same?

Thousands of new cities are needed to house the increasing global population - projected to reach 10bn by 2060. From China's planned Jing-Jin-Ji hypercity to African techno hubs and sprawling refugee camps, Adam Greenfield explores what the future holds

Cities is supported by

ROCKEFELLER FOUNDATION About this content
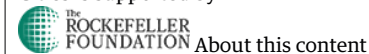
Adam Greenfield
Thu 28 Jan 2016 08.04 GMT

At present we share our planet with some 7.5 billion other human beings, and as swollen as that number may already sound, it is projected to hit 10 billion before levelling off sometime around the middle of the century.

Global population may never scale the vertiginous peaks foreseen in the panicky neo-Malthusian literature of the mid-20th century, chiefly Paul and Anne Ehrlich's famous jeremiad of 1968, The Population Bomb. Nor will overpopulation's effects, as they fold back against the cities of the global north, much resemble the apocalyptic depictions in the era's pop culture; 1973's Soylent Green, for example, opens with a title card informing the viewer that 40 million souls reside in the smog-choked New York City of 2022, and that seems more

win - win collaboration?

interaction between
global & local

Impact of BRI on local context - case Khorgos Gateway

4 PORTS AND MARITIME ROUTES

First rail freight service from UK to China

Changing gauge

Europe/UK	Russia	China
1,435mm (4ft 8.5in)	1,520mm (4ft 11in)	1,435mm (4ft 8.5in)

PA
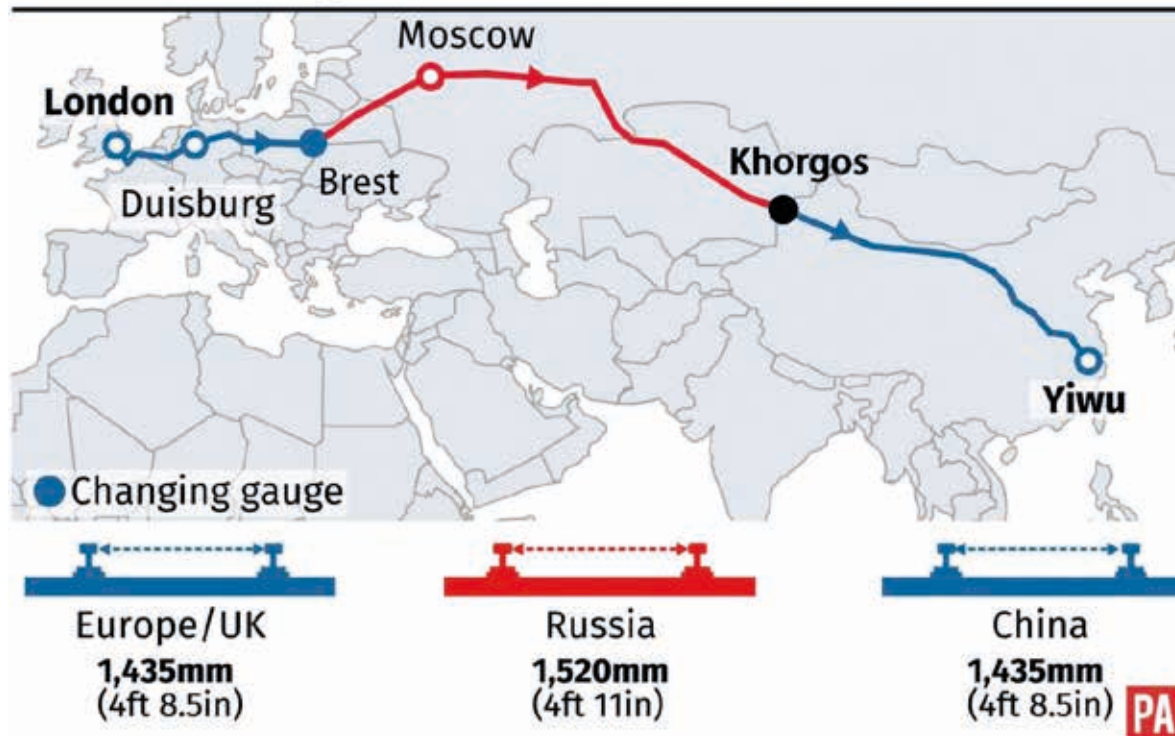
Emerging trade hub could revive ancient Silk Road

In a remote part of Central Asia a new colossal dry port is emerging called the Khorghos Gateway. It has sprung up in the desert between China and Kazakhstan in just seven years.

The Gateway is hoping to become the key point of New Silk Road - global trade way between East and West. For centuries ancient Silk Road was the main trade way connecting China and Europe. Khorgos may revive it and completely change the logistics of exchanging goods between Asia and Europe.

But it isn't just a train station and a few warehouses, they've created a new city - with some developers claiming they're building a "new Dubai".

31 May 2017

Source: http://www.bbc.com/news/av/world-asia-40099103/emerging-trade-hub-could-revive-ancient-silk-road

Research question

[
How can urban planners and designers shape the Belt and Road Initiative to create interactive urban environments for a globalized future?
]

Main question

How can urban planners and designers shape the Belt and Road Initiative to create interactive urban environments for a globalized future?

Sub - questions

Preparational context questions:

A. What is the Belt and Road exactly about, how does it work?

B. How does it exactly relate to the Ancient Silk Route?

Supportive research questions:

1. Can the current plan for Khorgos answer the needs of future multi-cultural communities?

2. What is the future vision for the development of Khorgos Gateway?

3. How to embed ICBC Khorgos with the surrounding context? How to facilitate spatial, functional and social interaction between the two?

Important abbreviations:

BRI: the Belt and Road Initiative
ICBC: International Centre for Border Cooperation

Methodology

1 Understand the Belt and Road Initiative

2 Study-case: Khorgos Gateway

3 Design: Interaction global and local in Khorgos

4 Evaluation and transferability

defining the scope

*defining the problem
defining design brief*

*integrating theory
and analysis findings*

*from case study back
to bigger system*

- BRI goals
- BRI Instruments
- Role of Urbanism

- Overview current BRI developments
- Selection study-case

- Field trip to Khorgos
- Analysis findings
- Diagnosis BRI

- Exploration of theoretical concepts through literature study and discussions with experts

- Rethinking the role of ICBC Khorgos
- Solving identified problems
- Impact of solutions through the scales
- Five development goals with strategies and implementations

- Tool for assessment and evaluation
- Impact on the BRI as a system
- Transferring results globally
- Recommendations for future development of ICBC clusters in BRI

Theory paper:

BRI through the lens of Urbanism

Introduction   How?   Why?   Result   Effect   Next Up

Methodology

1 Understand the Belt and Road Initiative

Legend:
- Railways
- Oil pipelines
- Economic corridor
- Loan location
- Special Economic Zones
- Planned Chinese ports
- Maritime Silk Road
- Khorgos Gateway

Theory paper:

BRI through the lens of Urbanism

BRI Goals	COLLABORATION						
	Financial integration	Unimpeded trade	Policy coordination	Connectivity	People to people bonds		
	Politico-Economic Instruments			Physical Instruments	Socio-cultural Instruments		
BRI Instruments	Capital loans, Technical financial instruments.	Economic cooridors, trading agreements.	Diplomatic agreements, policy programmes.	Nodal infrastructures: Roads, Railways, Ports, Airports, Telecommunications networks, Pipelines, Development Zones and Cities.	Silk Road cultural legacy, Educational programmes, Cultural exchange programmes, Chinese Culture Institutes.		
			Special Economic Zones				
Spatial Planning and Design Tools			Trans-territorial Vision, Spatial Development Perspective.			XL	Spatial Cohesion across borders and scales
			Structural Visions, Polycentric Development Strategies, Cross-border Cooperation Programmes.			L-M	
			Embedding Infrastructure	Placemaking Urban Interaction Design		S	

Introduction • How? • Why? • Result • Effect • Next Up
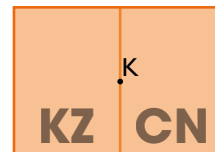
Methodology

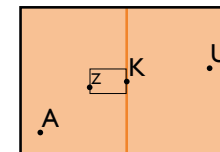**2** Study-case:
Khorgos Gateway
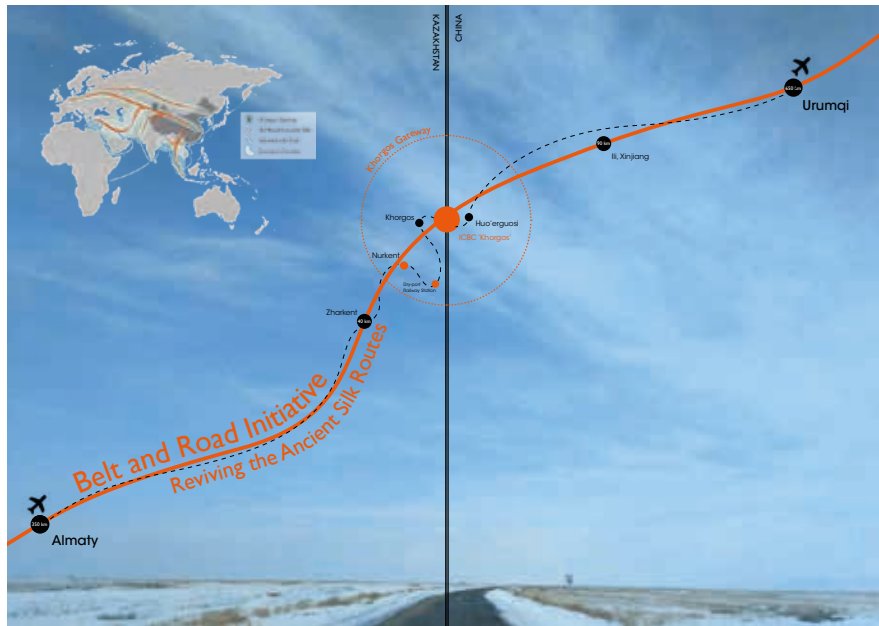
XL
International context Khorgos Gatway

L
National context Khorgos Gatway

M
Regional context Khorgos Gatway
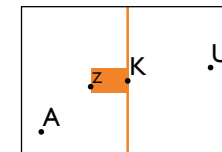
S
Local context Khorgos Gateway
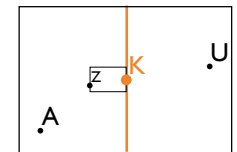
Methodology

Development goals for Khorgos

(A) (B) (C) (D) (E)

3 Design: Interaction global and local in Khorgos

S

M

L

XL

Methodology

4 → Evaluation and transferability

Railway Yiwu London

Silk Road Economic Belt   Maritime Silk Road   Economic Corridor

INTERACTION

LOCAL — GLOBAL

E 2.2   E 2.1

WIN WIN

BUSINESS   B 1.1   B 1.2   BUSINESS

CULTURE   D 1.2   D 1.3   D 1.1   CULTURE
D 1.4

URBAN   C 2.1   C 1.1   URBAN
C 1.2
E 1.1
C 2.2

INFRASTRUCTURE   A 1.1   A 2.1   INFRASTRUCTURE
A 1.2

ACCESSIBILITY

KAZAKHSTAN CHINA

Urumqi

650 km

90 km

Ili, Xinjiang

Khorgos Gateway

Khorgos

Huo'erguosi

ICBC 'Khorgos'

Nurkent

Dry-port
Railway Station

Zharkent

40 km

Belt and Road Initiative

Reviving the Ancient Silk Routes

350 km

Almaty

Khorgos Gateway
Silk Road Economic Belt
Maritime Silk Road
Economic Corridor
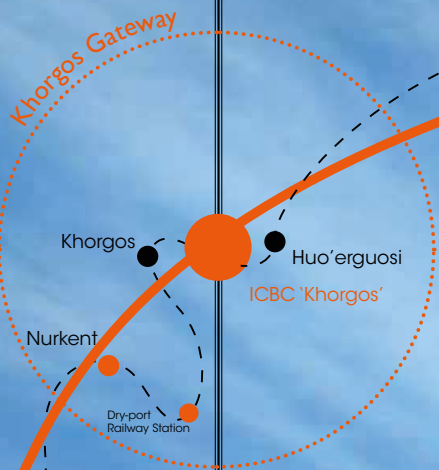
Analysis through the scales

XL

L

M

S

Astana

Kazakhstan

Almaty · Khorgos · Urumqi

Kashgar

Uzbekistan

Tajikistan

Afghanistan

Khorgos

Urumqi

Almaty

Kazakhstan

Kyrgyzstan · China

100 km

Khorgos

ICBC

Dry Port

Zharkent

Industry

1 KM

Zharkent

Huoerguosi Station

Almaty

Altynkol Station

Khorgas Station

XL - China & Kazakhstan

Biggest cities and cooperations

Silk Route Heritage

L - Almaty - Khorgos - Urumqi

✔ International shopping and entertainment centers

✔ International higher education

✘ Air pollution due to Old transport

✘ Lack of support for young families

✔ Agriculture Industry

✔ Job opportunities with housing provided

✔ Good economic conditions for business

✘ Remote location No convenient connection

✘ No big leisure and entertainment facilities

✔ International shopping and entertainment centers

✔ Job opportunities with housing provided

✔ Higher education

✘ Safety issues High level control

Almaty - Khorgos

🚆 Seasonal train, twice a week
Travel time: 5 hours

🚌 Touring bus every 3 hours
Travel time: 7 hours

🚕 Taxi / auto-stop / car
Travel time: 4 hours

Urumqi Khorgos

🚆 Train, once a day
Travel time: 12 hours

🚌 Touring bus
Travel time: 18 hours

🚕 Taxi / auto-stop / car
Travel time: 14 hours

Not attractive

Hard to reach

Legend

🛩 Million city

🛩 International airport   Planned development Khorgos

🛩 Domestic airport   National border

     Railway line

     Fastest automobile route

M - Zharkent - Khorgos

Remore mointain settlement — Shizhin settlement

Dangerous border area

5. ICBC control point

Industrial ghost town

2. Nurkent

6. Khorgos village

Car

3. SEZ Khorgos

Isolation

Cultural heritage city

Zharkent

1.

4. Altynkol station

Zharkent to Khorgos 40 km
50 minutes traveling from Zharkent to Khorgos by taxi

S - Khorgos Gateway

S

ICBC

DRY PORT & INDUSTRY
KAZAKHSTAN

INDUSTRY CHINA
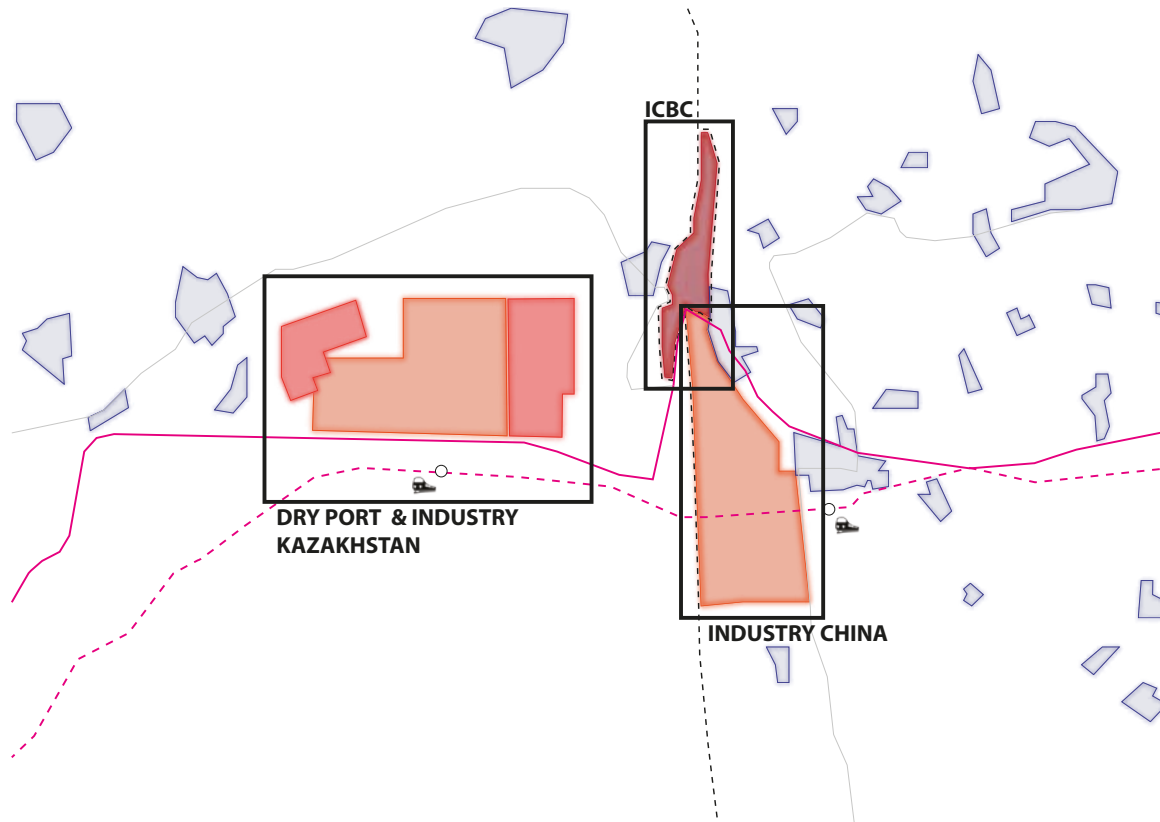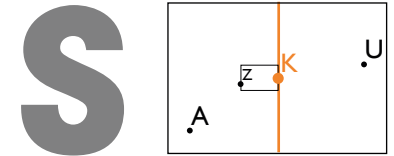
Dry port
Source:: BBC documentary Khorgos Gateway (2017)

Alashankou railway station
Source: travel pictures

ICBC
Source: travel pictures

государственная граница

Международный центр
приграничного сотрудничества
"Хоргос" (РК)

Международный центр
приграничного сотрудничества
"Хоргос" (КНР)

Current plan for the border cooperation centre. Source: http://mcps-khorgos.kz/en/project/geographical

Khorgos Village

Kazakhstan
Congress centrum

Chinese ICBC
developments

Huerguosi Town

Kazakhstan   China

Analysis Summary

XL

The cluster Almaty - Astana is currently stronger than Almaty Khorgos. Almaty - Khorgos - Urumqi is not realising its full potential yet.

The Almaty and Xinjiang regions are rich in Silk Route Heritage, however many sites lack exposure and accessibility.

L

The established Almaty and Urumqi make it hard for Khorgos to compete for visitors and residents in the thin populted region.

Khorgos is not attrachtive enough yet to go through the effort of unconvenient travelling there.

M

Regadless the free housing and job opportunities in Nurkent, Zharkent is a more attractive city for its culture, enertainment, shopping and freedom to build own housing.

The car-only connection between Zharkent, Nurkent and Khorgos is not optimal and works against the potential of the new developments.

Zharkent and the region used to be strong for agriculture. The BRI gave it a chance to revive but more support is needed to make it the strength of the region again.

S

Programme of the ICBC is not attractive enough for locals.

Accessing the ICBC is unconvenient and paid. Environment is not welcoming, border very hard.

Programme and functions

Accessibility and transportation

Local potential
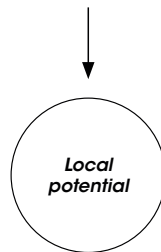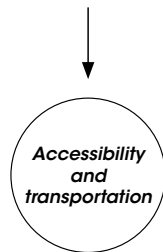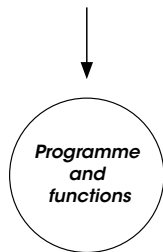
Local People

- Like to build their own housing.
- Want a big shopping and entertainment mall like in Almaty
- Care for their children to get international education
- Want to have more meeting places like park, squares and markets.
- Need easier/cheaper ways of travelling in the region as villages and new developments are far away from each other.

Introduction — How? — Why? — Result — Effect — Next Up

Theory Summary

BRI Goals	COLLABORATION					
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BRI Instruments	Capital loans, Technical financial instruments.	Economic cooridors, trading agreements.	Diplomatic agreements, policy programmes.	Nodal infrastructures: Roads, Railways, Ports, Airports, Telecommunications networks, Pipelines, Development Zones and Cities.	Silk Road cultural legacy, Educational programmes, Cultural exchange programmes, Chinese Culture Institutes.	
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Legend:
- Railways
- Oil pipelines
- Economic corridor
- Loan location
- Special Economic Zones
- Planned Chinese ports
- Maritime Silk Road
- Khorgos Gateway

Design challenge

Facilitate Interaction
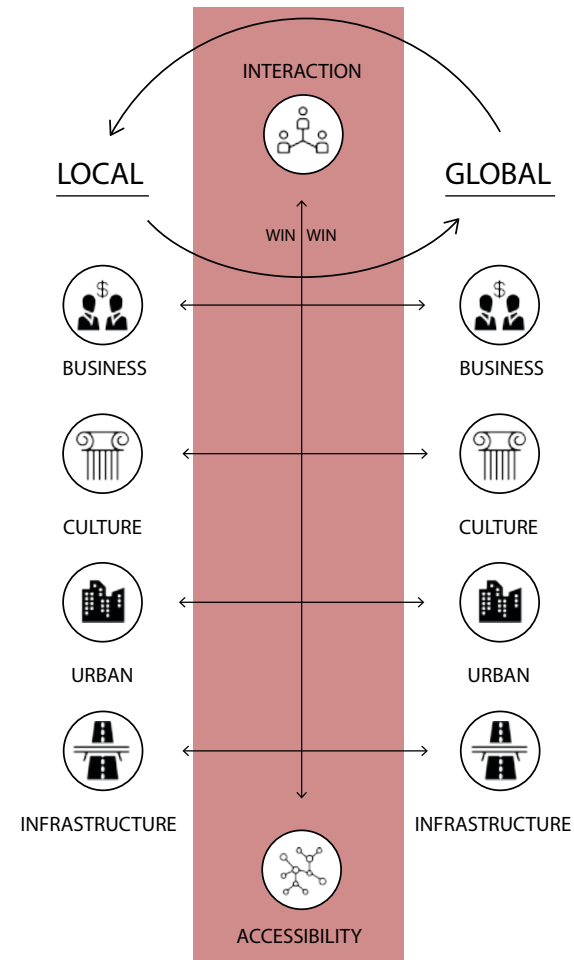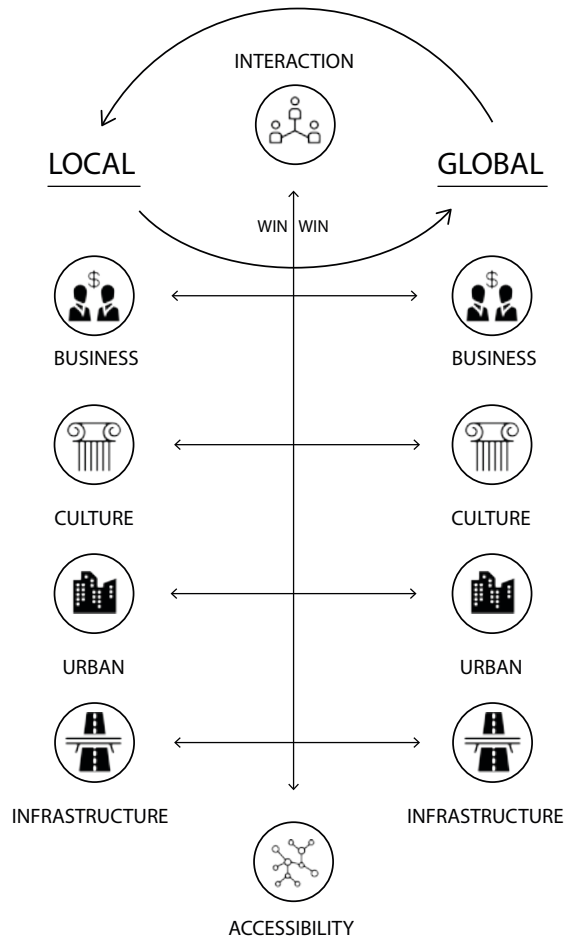
Rethinking the role of ICBC Khorgos

Role across scales:

S → **XL** →

Future Trends:
we won't be bound to one place and will travel faster
digital citizenship, digital trade = empty shopping malls

Nomads of globalisation

Digital trade

IKEA Co-living research

do you want to live in a community that has locations all over the world?

yes, I want to be a nomad: 72%

no, I prefer to stay put 27%

Introduction   How?   Why?   Result   Effect   Next Up
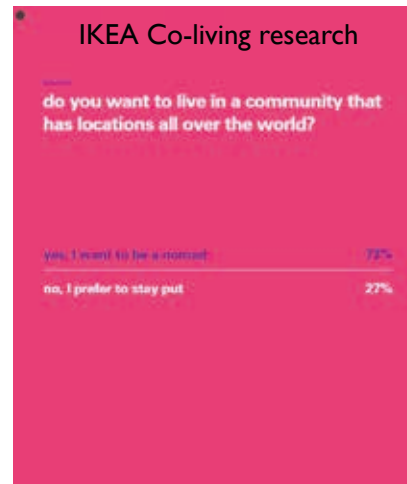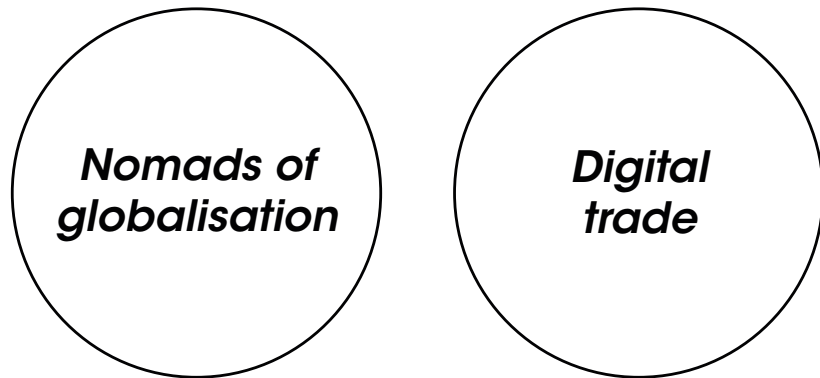
Consequences digital trade

Wholesale malls are drastically losing visitors.

Consequences digital trade

Wholesale malls are drastically losing visitors.
Should we build more new ones? Does the ICBC programme need this?

Urumqi shows another challenge that ICBC Khorgos might need to battle; empty wholesale markets, that welcomed thousands of people on daily basis just 5 years ago. Digitalization of trading through social platforms like WeChat (Chinese WhatsApp with a digital wallet), made frequent visits to physical malls unnecessary. With further progression of this trend, the brand-new ICBC might suffer the same fate.

Bianhai Wholesale Market in Urumqi is losing its visitors due to digitalisation of trading.
Source: travel pictures by author.

Co-living

All across the world communes and co-living is gaining popularity. As our societies mix more, less people have one and fixed place to call home.

Millennials want experiences not possessions, say co-living entrepreneurs

"Shared living spaces are booming in major cities as young people seek a more sociable lifestyle, according to the entrepreneurs behind the "co-living" accommodation trend"

MINI's co-living destination in Shanghai "brings know-how from vehicles into places where we live"

Car brand MINI is diversifying into urban development with the MINI Living building in Shanghai, which will see a disused industrial complex transform into apartments, offices and leisure spaces

The brand is working with Chinese developer Nova Property Investment Co on the project, which involves converting a former paint factory in the city's Jing'An district into a space for co-living and working that also promotes engagement with the local community.

IKEA Co-living research

do you want to live in a community that has locations all over the world?

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Development goals Khorgos Gateway

Based on future trends, site analysis, BRI agenda and focus on interaction between global and local.

Underlying goal:
facilitate interaction between
local and global aspects in
each domain.

INTERACTION

LOCAL   GLOBAL

WIN WIN

BUSINESS   BUSINESS

CULTURE   CULTURE

URBAN   URBAN

INFRASTRUCTURE   INFRASTRUCTURE

ACCESSIBILITY

E Encourage international interaction and collaboration at ICBC

B Leverage the potential of the local region

D Celebrate the gems of local culture and Silk Route

C Embed ICBC in local context

A Easy accessibility throught efficient connection

Development framework Khorgos Gateway

A — Easy accessibility throught efficient connection

B — Leverage the potential of the local region

C — Spatially embed in local context

D — Celebrate the gems of local culture and Silk Route

E — Encourage international interaction and collaboration

A	B	C	D	E
Strategy 1 Efficient connection in local region	**Strategy 1** Develop agriculture and farming	**Strategy 1** Expand and densify starting from the existing settlements	**Strategy 1** Khorgos Silk Road & Culture Heritage Hub	**Strategy 1** Communal living space for 'nomads of globalisation'
				Strategy 2 Reasons for interaction between locals and internationals
Strategy 2 Polycentric cluster Khorgos - Almaty - Astana		**Strategy 2** Embed the urban developments with respect to local landscape and uses		
Policy Reccomendation Stimulation and (BRI) investment in infrastructure	**Policy Reccomendation** Tax discount and government support for agri and farming businesses on SEZ	**Planning Reccomendation** Expand on existing villages as much as possible		**Policy Reccomendation** Special residence permit Pass for free entrance locals

Introduction ● How? ● Why? ● **Result** ● Effect ● Next Up

Development framework Khorgos Gateway

Space and economy

Culture and Society

A Easy accessibility throught efficient connection

B Leverage the potential of the local region

C Spatially embed in local context

D Celebrate the gems of local culture and Silk Route

E Encourage international interaction and collaboration

Strategy 1
Efficient connection in local region

Strategy 1
Develop agriculture and farming

Strategy 1
Expand and densify starting from the existing settlements

Strategy 1
Khorgos Silk Road & Culture Heritage Hub

Strategy 1
Communal living space for 'nomads of globalisation'

Strategy 2
Reasons for interaction between locals and internationals

Strategy 2
Polycentric cluster
Khorgos - Almaty - Astana

Strategy 2
Embed the urban developments with respect to local landscape and uses

Policy Reccomendation
Stimulation and (BRI) investment in infrastructure

Policy Reccomendation
Tax discount and government support for agri and farming businesses on SEZ

Planning Reccomendation
Expand on existing villages as much as possible

Policy Reccomendation
Special residence permit
Pass for free entrance locals

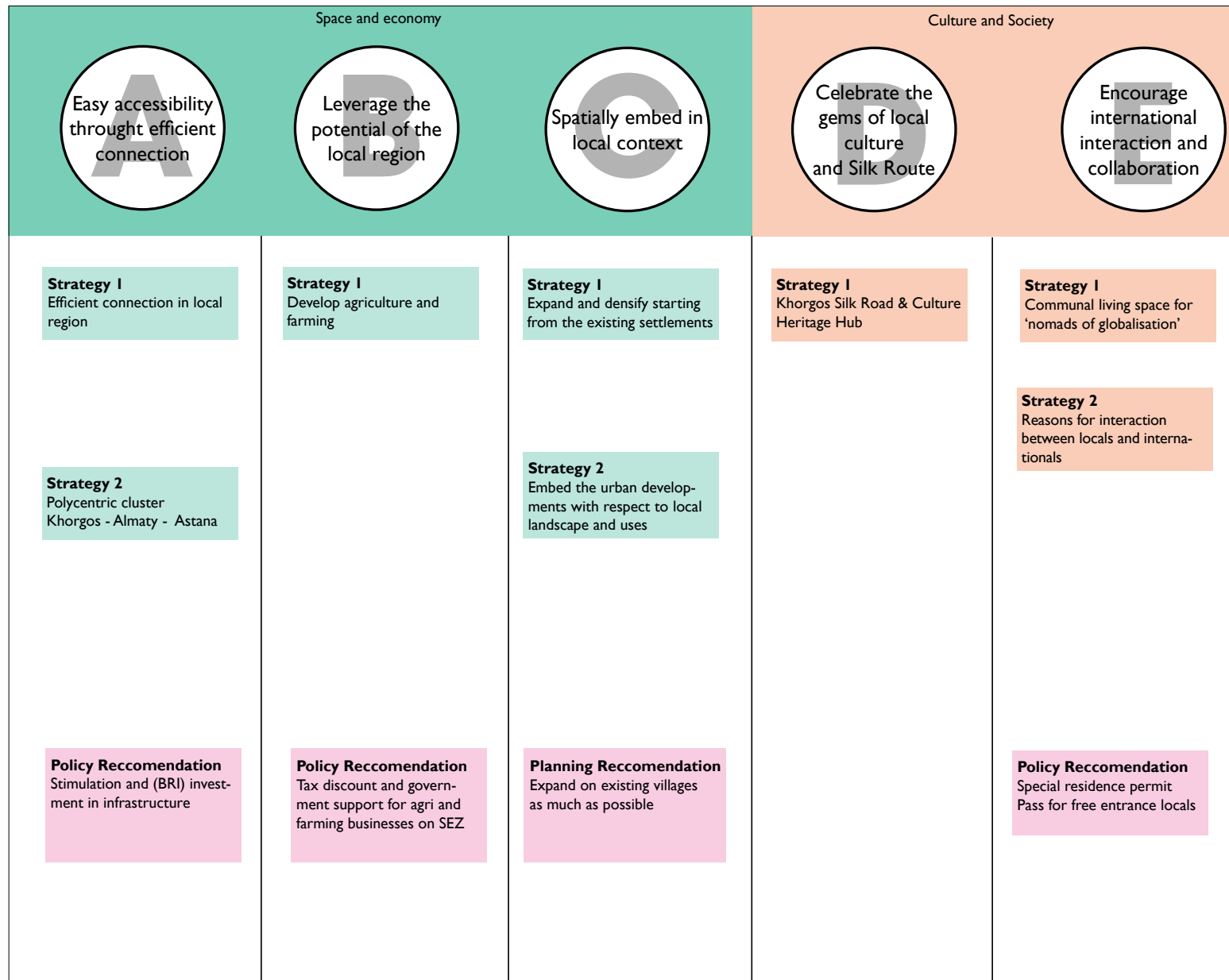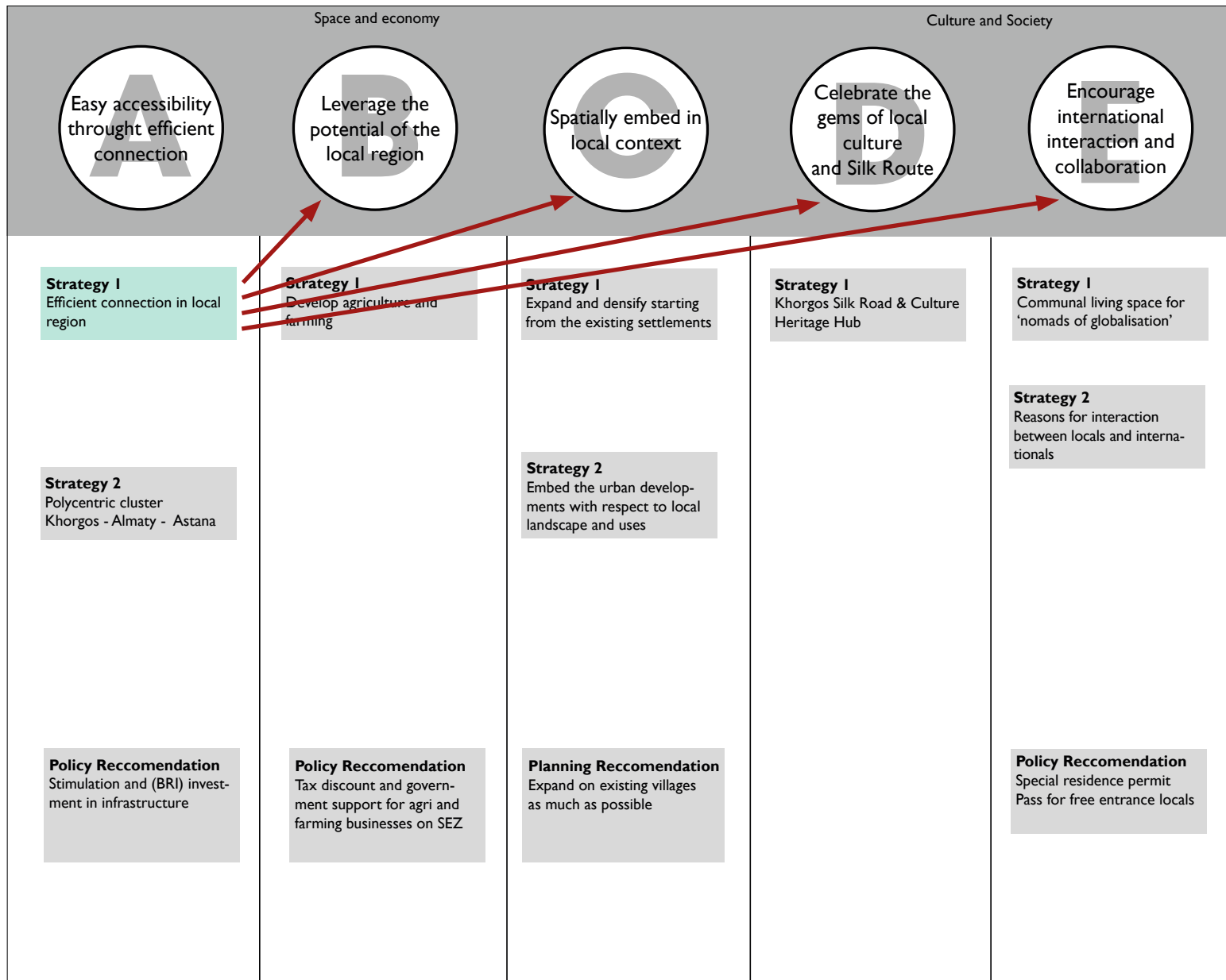Introduction How? Why? Result Effect Next Up

Development framework Khorgos Gateway

Space and economy   Culture and Society
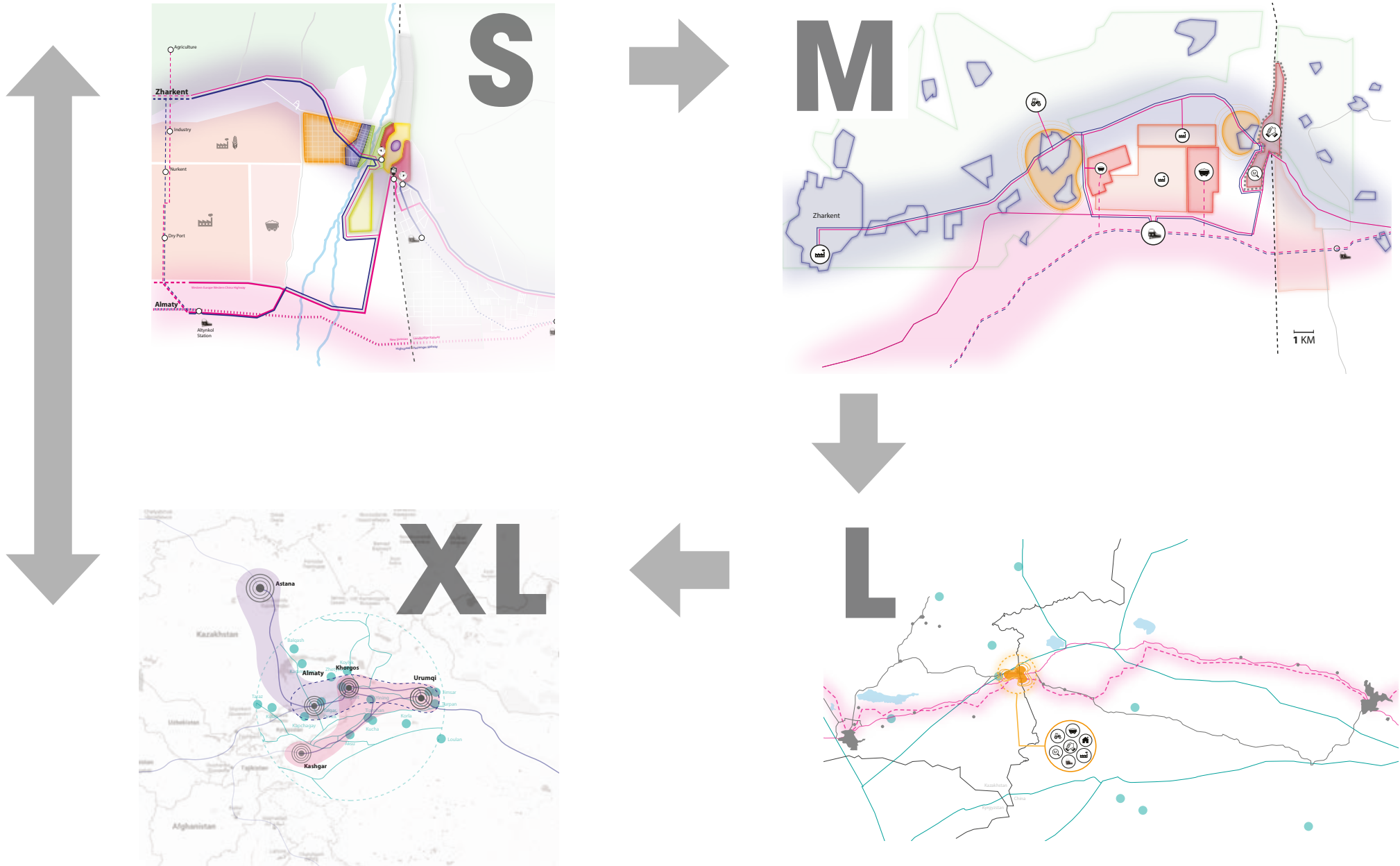
(A) Easy accessibility throught efficient connection

(B) Leverage the potential of the local region

(C) Spatially embed in local context

(D) Celebrate the gems of local culture and Silk Route

(E) Encourage international interaction and collaboration

Strategy 1 Efficient connection in local region	**Strategy 1** Develop agriculture and farming	**Strategy 1** Expand and densify starting from the existing settlements	**Strategy 1** Khorgos Silk Road & Culture Heritage Hub	**Strategy 1** Communal living space for 'nomads of globalisation'
Strategy 2 Polycentric cluster Khorgos - Almaty - Astana		**Strategy 2** Embed the urban developments with respect to local landscape and uses		**Strategy 2** Reasons for interaction between locals and internationals
Policy Reccomendation Stimulation and (BRI) investment in infrastructure	**Policy Reccomendation** Tax discount and government support for agri and farming businesses on SEZ	**Planning Reccomendation** Expand on existing villages as much as possible		**Policy Reccomendation** Special residence permit Pass for free entrance locals

Introduction   How?   Why?   **Result**   Effect   Next Up

Development framework Khorgos Gateway

Space and economy

A — Easy accessibility throught efficient connection

Strategy 1
Efficient connection in local region

Implementation 1
Busline Zharkent - Khorgos

Implementation 2
New road connections near the border (see map)

Strategy 2
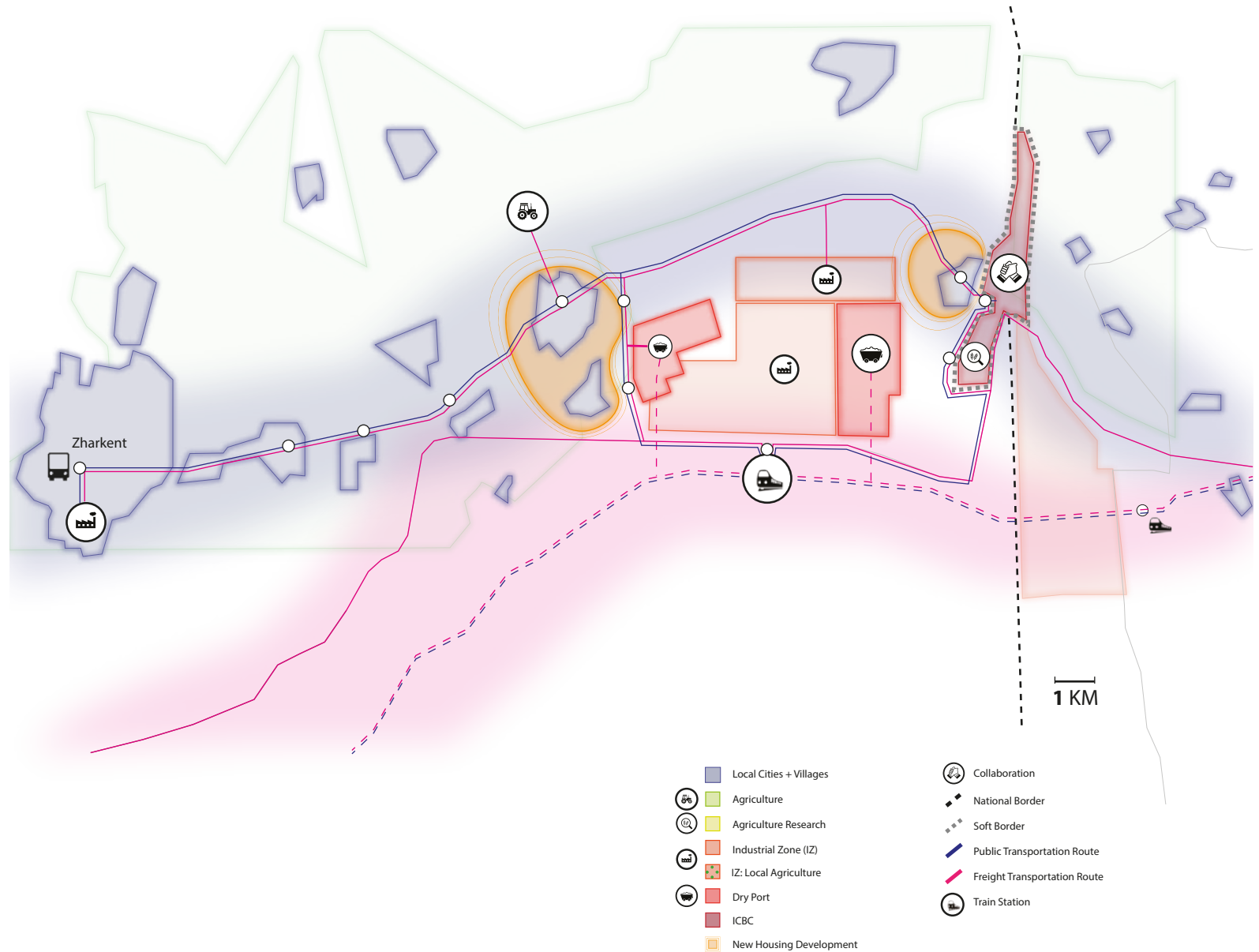Polycentric cluster Khorgos - Almaty - Astana

Implementation 1
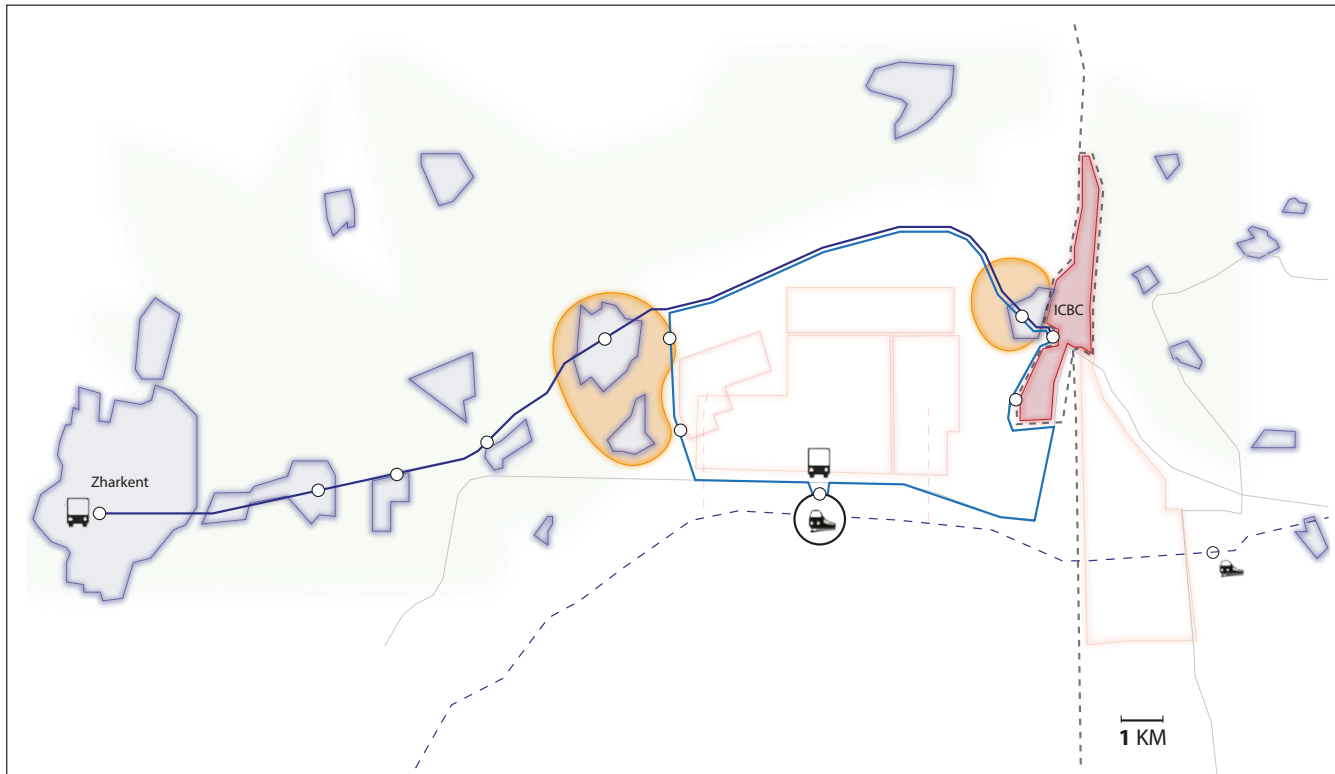Higspeed connection Astana - Khorgos, with a branch to Almaty

Policy Reccomendation
Stimulation and (BRI) investment in infrastructure

B — Leverage the potential of the local region

Strategy 1
Develop agriculture and farming

Implementation 1
Research and development centre for agriculture near the border

Implementation 2
Space and infrastructure on the SEZ for agriculture business (what transportation modes?)

Policy Reccomendation
Tax discount and government support for agri and farming businesses on SEZ

C — Spatially embed in local context

Strategy 1
Expand and densify starting from the existing settlements

Implementation 1
Unit expansion

Implementation 2
Expand and densify Khorgos

Strategy 2
Embed the urban developments with respect to local landscape and uses

Implementation 1
Soften the security barrier of ICBC

Implementation 2
Embed the Khorgos expansion in surrounding context

Planning Reccomendation
Expand on existing villages as much as possible

Culture and Society

D — Celebrate the gems of local culture and Silk Route

Strategy 1
Khorgos Silk Road & Culture Heritage Hub

Implementation 1
Museum/info/edu centre

Implementation 2
Cross-border hubs interaction installation

Implementation 3
Provide Silk Route touring packages to China and Kazakhstan

Implementation 4
Local village life experience

E — Encourage international interaction and collaboration

Strategy 1
Communal living space for 'nomads of globalisation'

Implementation 1
Shared housing facilities, equal quality for everyone (hostel/commune village)

Strategy 2
Reasons for interaction between locals and internationals

Implementation 1
Learn (language, tech, culture)
Eat (cooking classes, shared meals, restaurants)
Party (festivals, celebrations)

Implementation 2
Add locally desirable functions: education, free housing, leisure, quality public space, shopping

Policy Reccomendation
Special residence permit Pass for free entrance locals

Iplementations across scales

S

M

L

XL

A

Easy accessibility throught efficient connection

Strategy 1
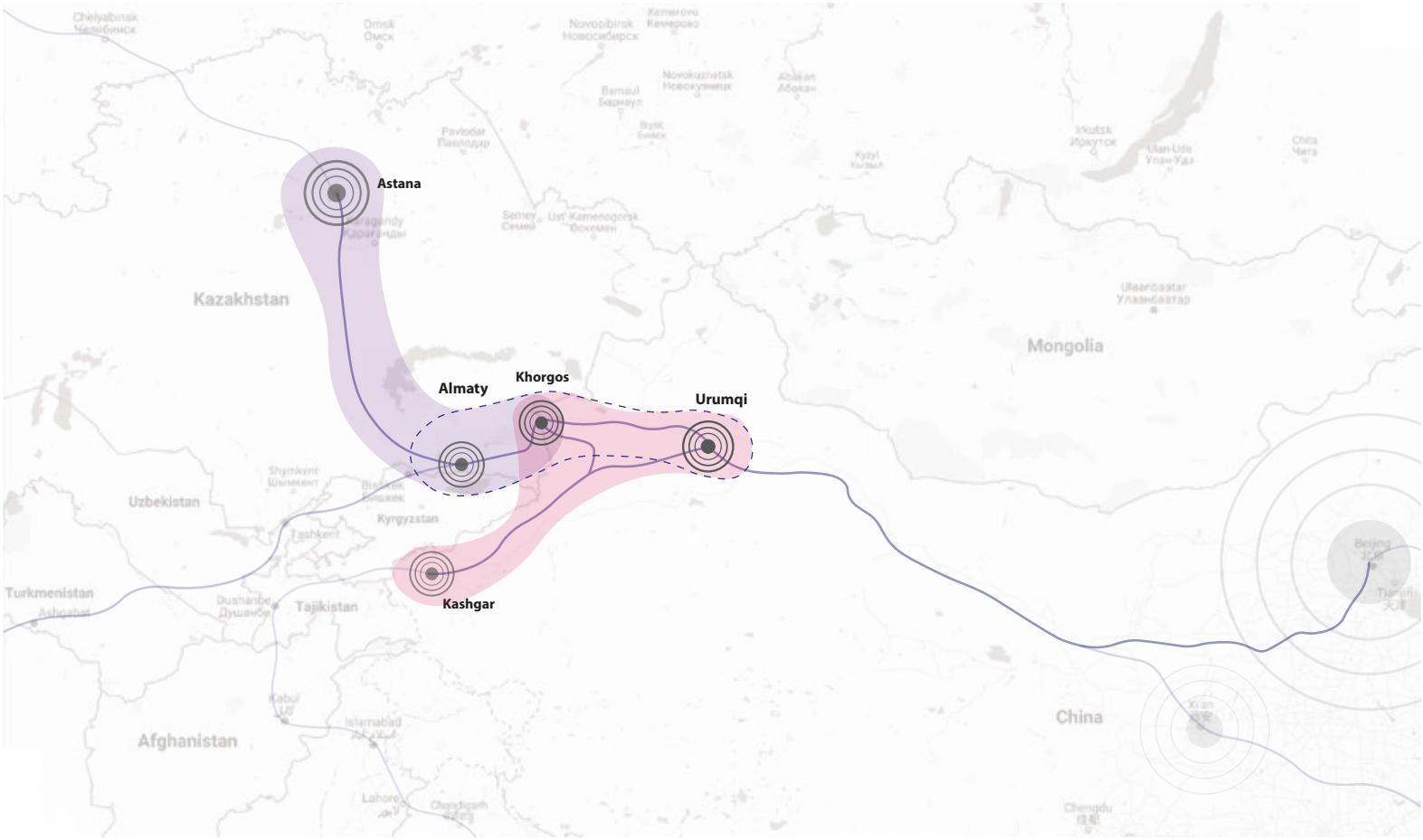Efficient connection in local region

Implementation 1
Busline Zharkent - Khorgos

Implementation 2
New road connections near the border for better access

Strategy 2
Polycentric cluster Khorgos - Almaty - Astana

Implementation 1
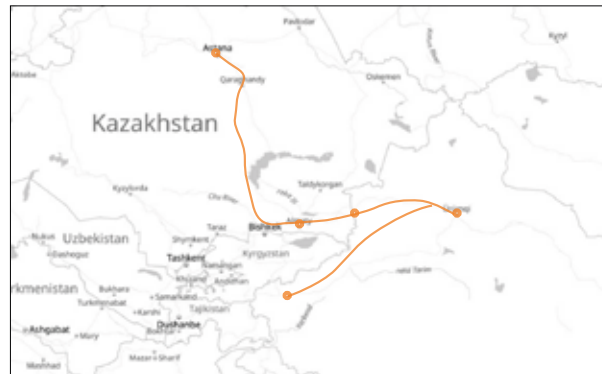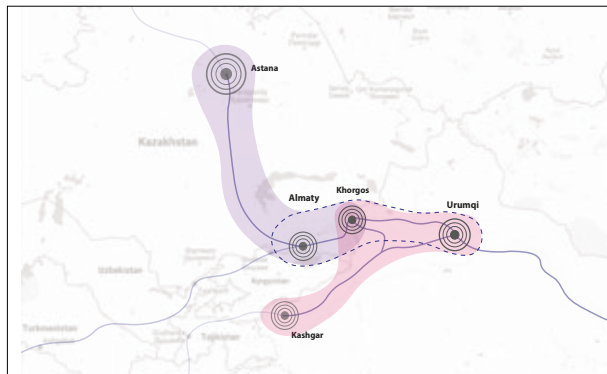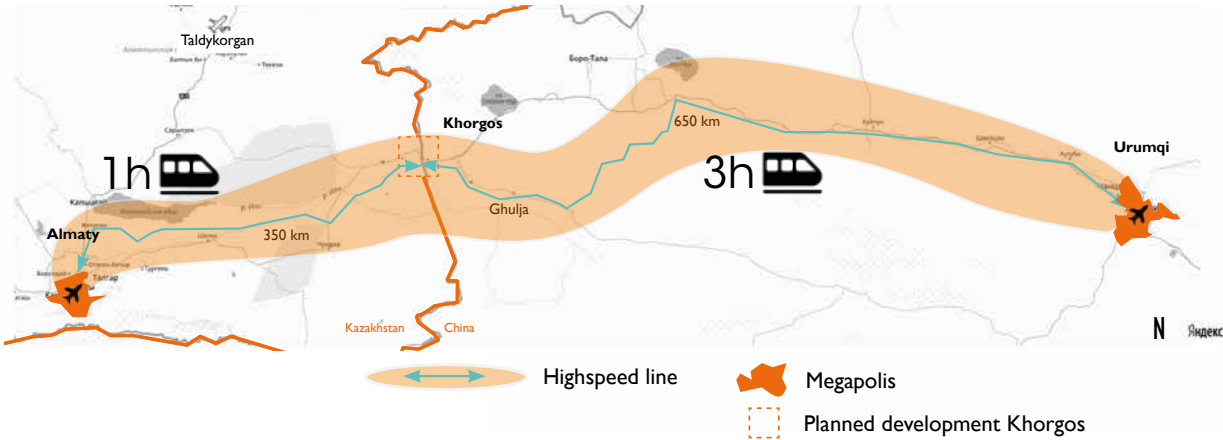Higspeed connection Astana - Khorgos, with a branch to Almaty

Policy Reccomendation
Stimulation and (BRI) investment in local infrastructure

Strategy 1 - Efficient connection in local region

Zharkent

1 KM

	Local Cities + Villages		Collaboration
Agriculture		National Border
Agriculture Research		Soft Border
Industrial Zone (IZ)		Public Transportation Route
IZ: Local Agriculture		Freight Transportation Route
Dry Port		Train Station
ICBC		
New Housing Development		

Strategy 1
Implementation 1 - Busline

Zharkent
ICBC
1 KM

M

Z K
U
A

Local Cities + Villages
Dry Port
ICBC
New Housing Development

Collaboration
National Border
Soft Border
Public Transportation Route
Freight Transportation Route
Train Station

Existing situation

Overlay weekly user patterns

ICBC
Nurkent
Dry-port
Train-station
Zharkent

Transport modes

ICBC
Taxi
Car
Nurkent
Dry-port
Shuttlebus
to work
Zharkent
Train-station
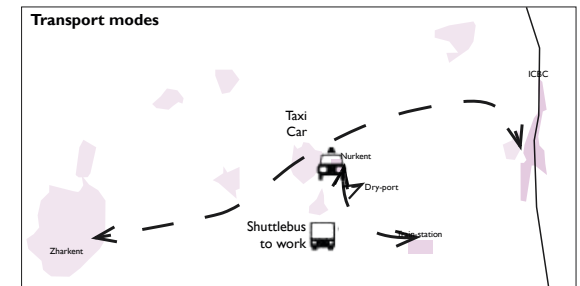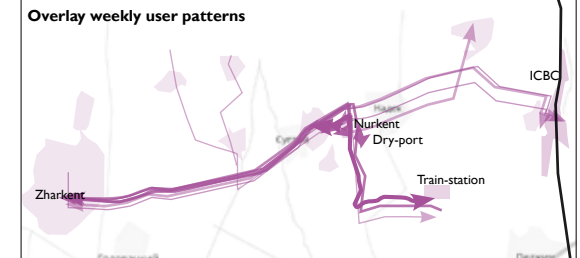
Strategy 1
Implementation 2 - Better border access
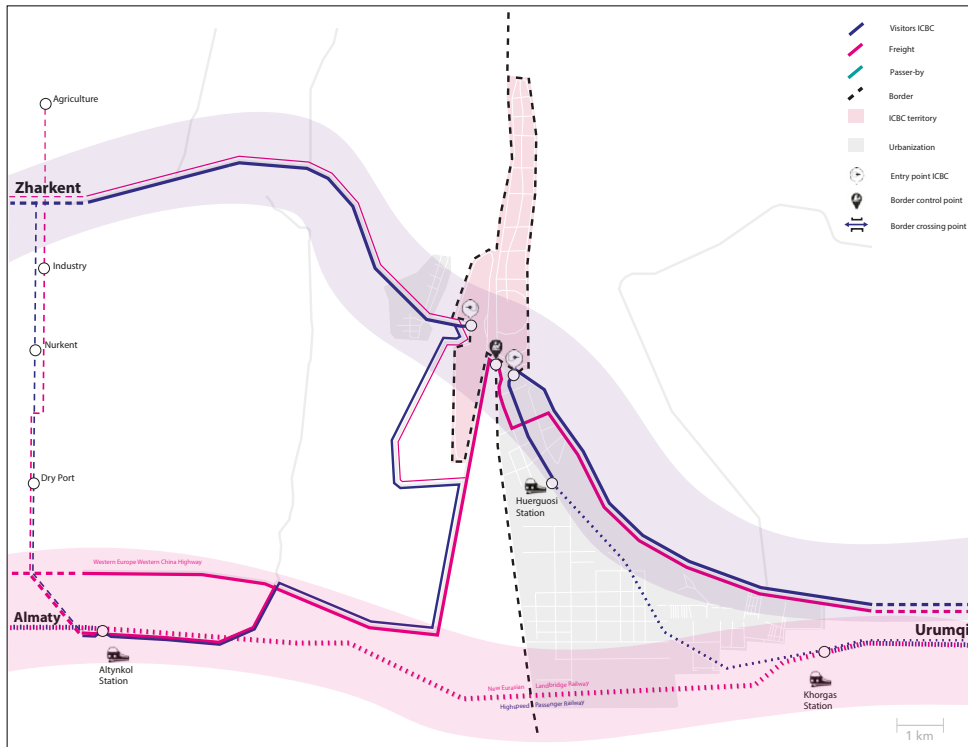
Existing situation
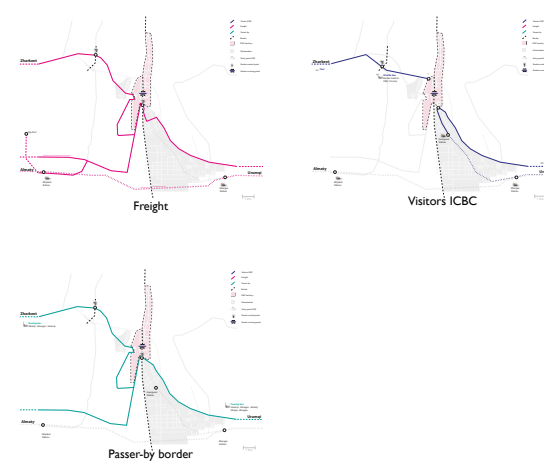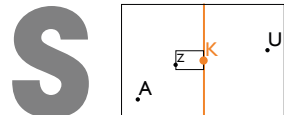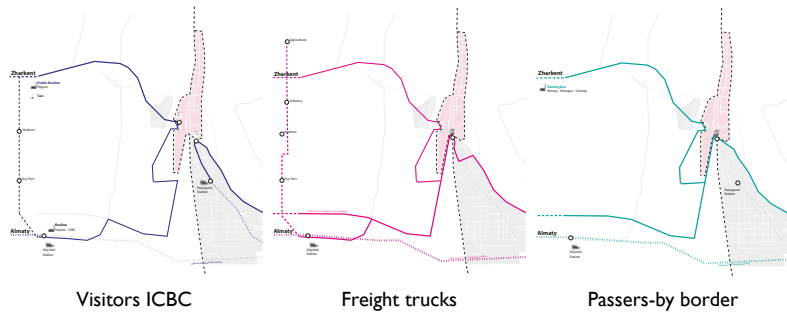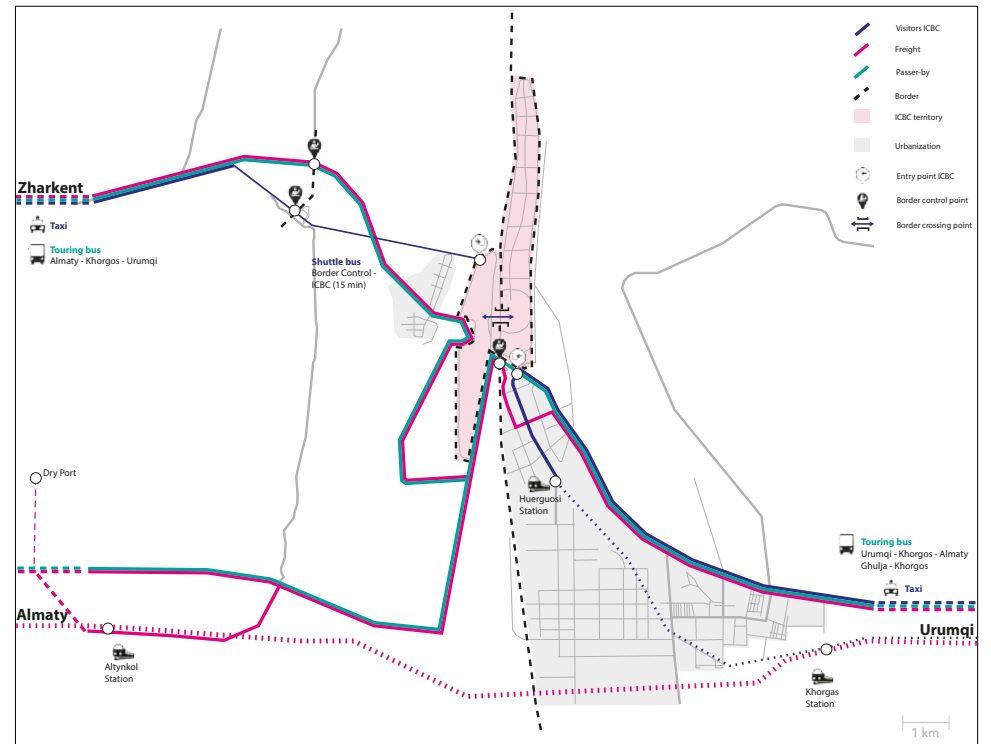
Visitors ICBC

Freight trucks

Passers-by border

Freight

Visitors ICBC

Passer-by border

A Easy accessibility throught efficient connection

Strategy 1
Efficient connection in local region

Implementation 1
Busline Zharkent - Khorgos

Implementation 2
New road connections near the border for better access

Strategy 2
Polycentric cluster
Urumqi - Kashgar - **Khorgos** - Almaty - Astana

Implementation 1
Higspeed connection Astana - Khorgos, with a branch to Almaty

Policy Reccomendation
Stimulation and (BRI) invest- ment in local infrastructure

Strategy 2 - Khorgos Gateway in a polycentric cluster

BRI City

High Speed Railway

Collaboration Cluster

Development Zone

Strategy 2
Implementation 1 - Highspeed connection

1h

3h

650 km

Taldykorgan

Khorgos

Urumqi

Ghulja

Almaty

350 km

Kazakhstan   China

N   Яндекс

Highspeed line

Megapolis

Planned development Khorgos

Astana

Kazakhstan

Almaty Khorgos Urumqi

Uzbekistan

Kashgar

Turkmenistan

Kazakhstan

Astana

Taldykorgan

Uzbekistan

Shymkent

Tashkent

Turkmenistan

Bukhara

Ashgabat

Dushanbe

Existing situation

Almaty - Khorgos

Seasonal train, twice a week
Travel time: 5 hours

Touring bus every 3 hours
Travel time: 7 hours

Taxi / auto-stop / car
Travel time: 4 hours

Urumqi Khorgos

Train, once a day
Travel time: 12 hours

Touring bus
Travel time: 18 hours

Taxi / auto-stop / car
Travel time: 14 hours

Taldykorgan

Khorgos

650 km

Urumqi

Almaty   350 km

Ghulja

Kazakhstan   China

N   30 km

Legend

Million city

International airport

Domestic airport

Planned development Khorgos

National border

Railway line

Fastest automobile route

Xinjiang Train Map

Astana

Kazakhstan

Almaty Khorgos Urumqi

Kashgar

Collaboration Cluster

Development Zone

BRI City

High Speed Railway

Ancient Silk Road Route

Ancient Silk Road Herritage

Leverage the potential of the local region

Strategy 1
Develop agriculture and farming

Implementation 1
Research and development centre for agriculture near the border

Implementation 2
Space and infrastructure on the SEZ for agriculture business
(what transportation modes?)

Policy Reccomendation
Tax discount and government support for agri and farming businesses on SEZ

Strategy 1 - Leverage the local potential, agriculture

Zharkent

ICBC

1 KM

Local Cities + Villages
Agriculture
Agriculture Research
Industrial Zone (IZ)
IZ: Local Agriculture
Dry Port
ICBC
New Housing Development

Collaboration
National Border
Soft Border
Public Transportation Route
Freight Transportation Route
Train Station
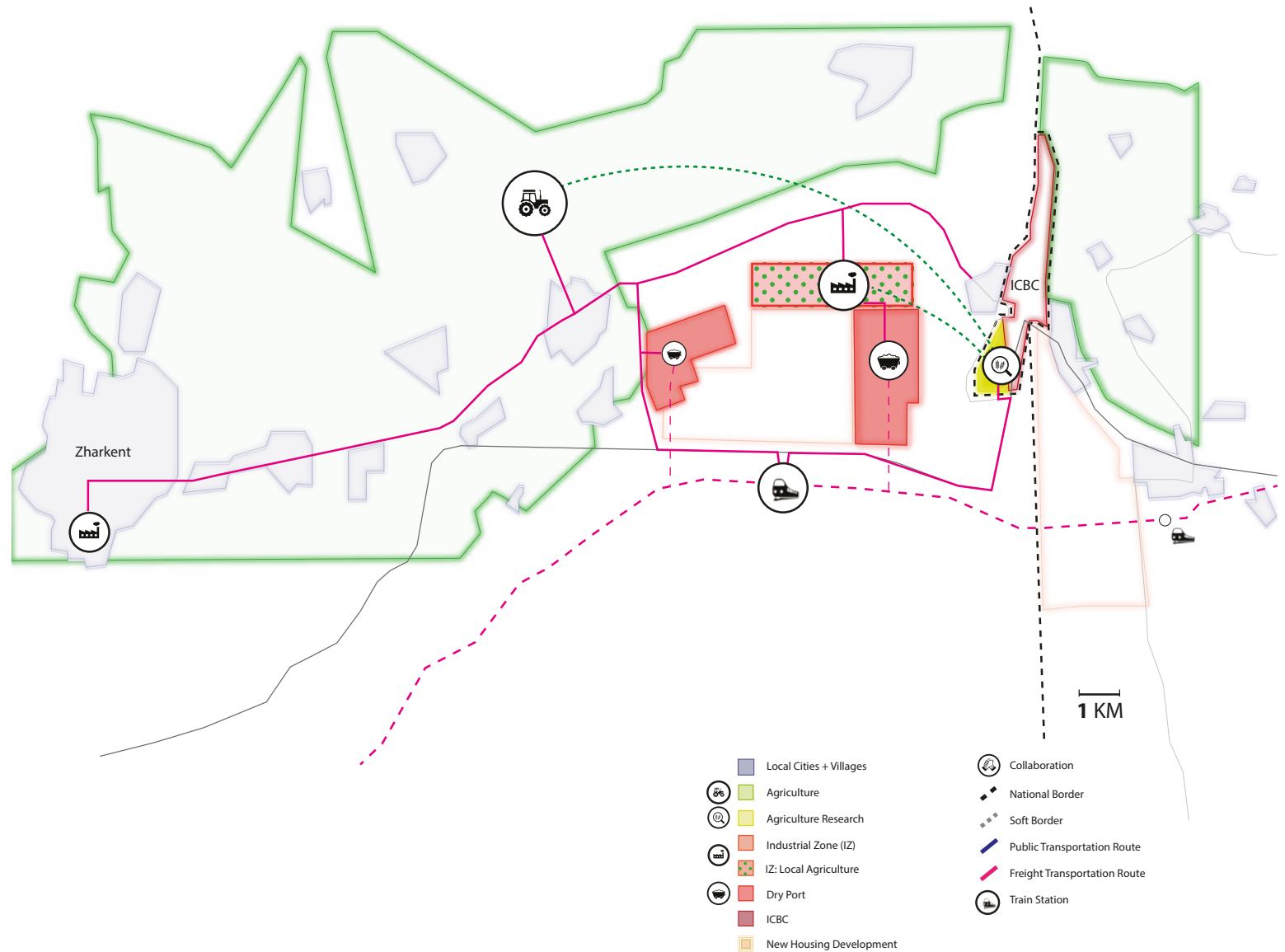
Zharkent and Khorgos-region known nation-wide for agriculture

Strategy 1
Implementation 1 - R&D center
Implementation 2 - Space for agri-industry
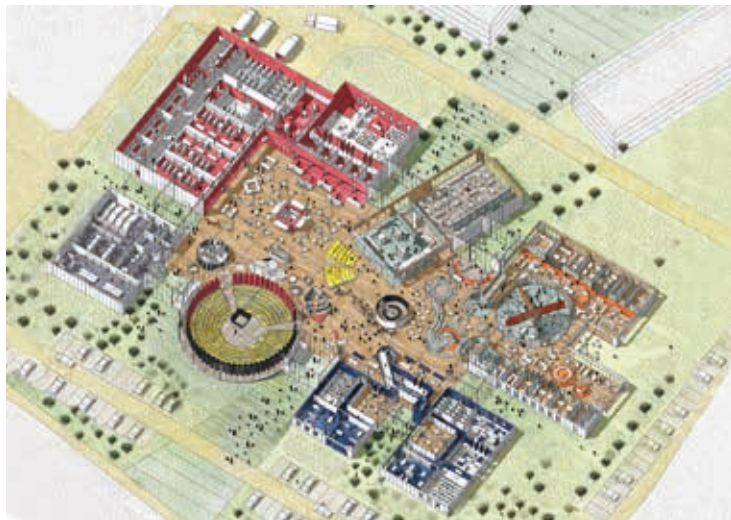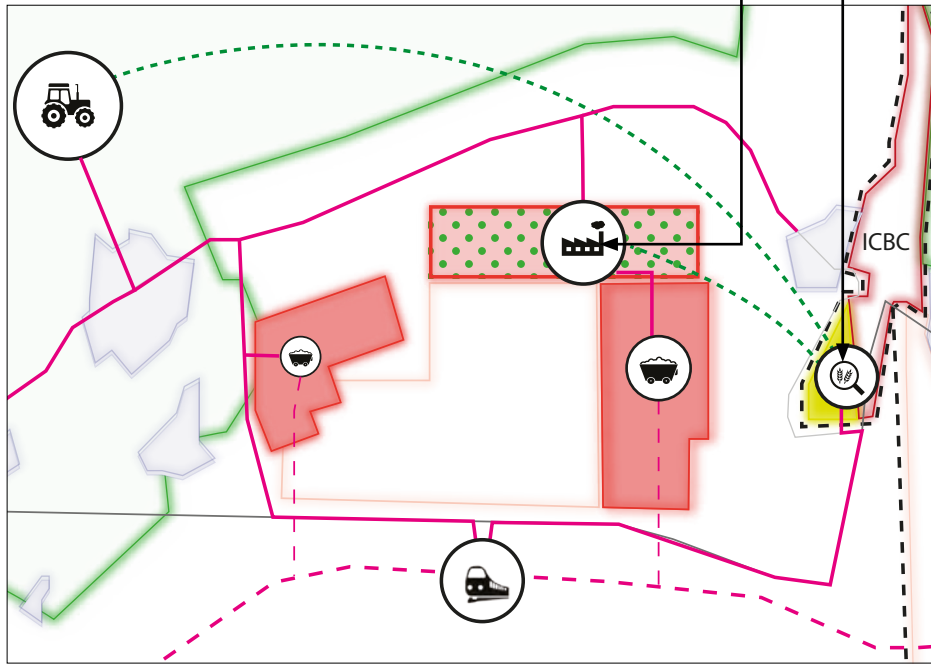
ICBC

Clément Blanchet Architecture

Existing situation
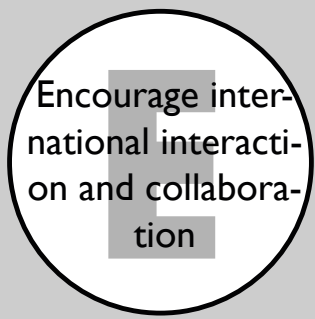
Farming

Fertilizer

Factory

Dry Port

Funding & Support

Research

Export

Encourage international interaction and collaboration

Strategy 1
Communal living space for 'nomads of globalisation'

Implementation 1
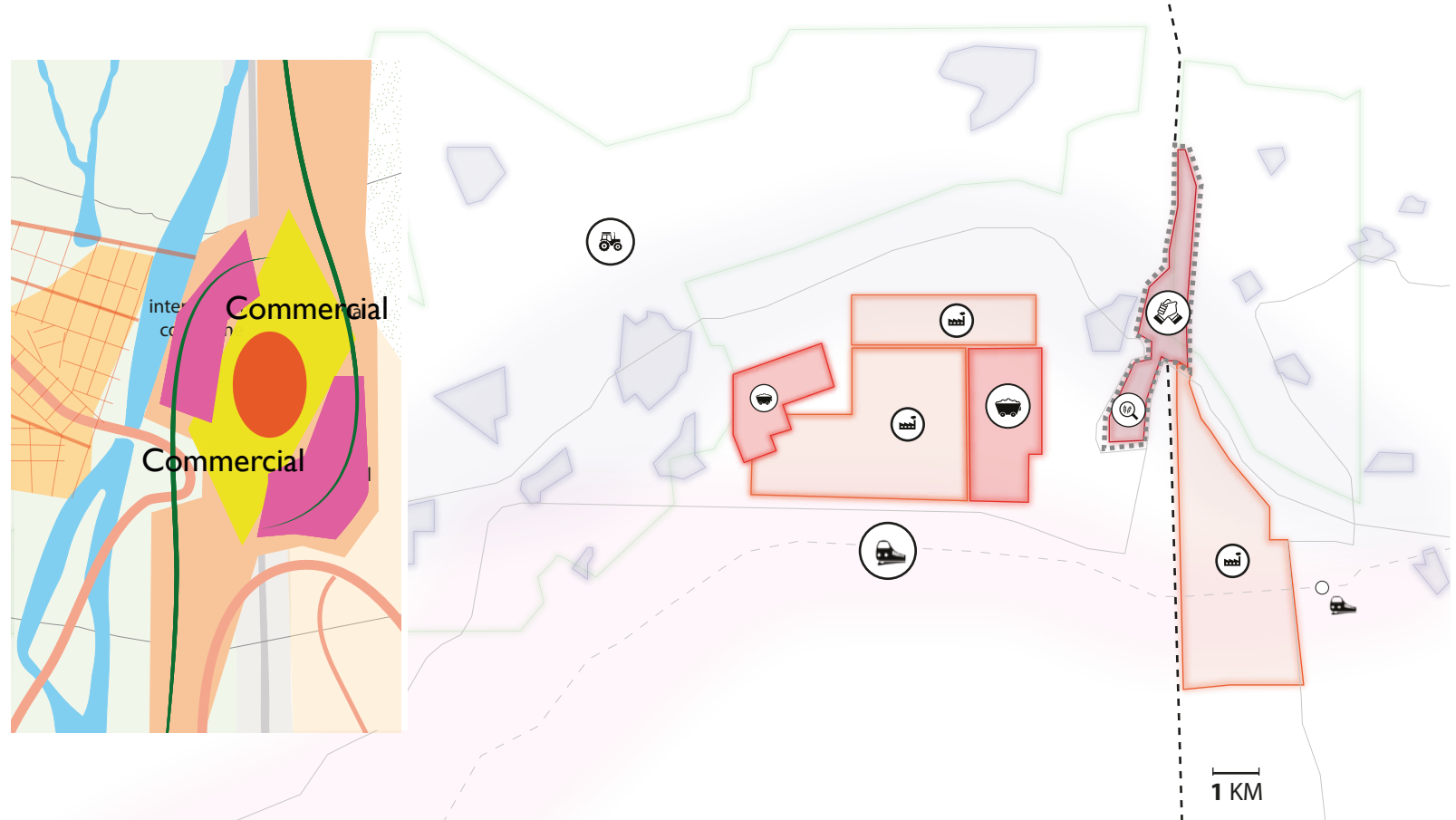Shared housing facilities, equal quality for everyone (hostel/commune village)

Strategy 2
Reasons for interaction between locals and internationals

Implementation 1
Learn (language, tech, culture)
Eat (cooking classes, shared meals, restaurants)
Party (festivals, celebrations)

Implementation 2
Add locally desirable functions: education, free housing, leisure, quality public space, shopping

Policy Reccomendation
Special residence permit
Pass for free entrance locals
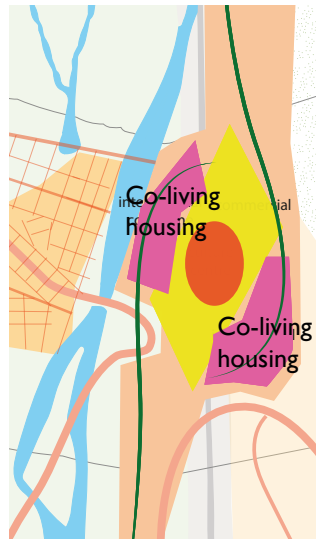
Implementation 1
Shared housing facilities for 'nomads of globalisation' .

Millennials want experiences not possessions, say co-living entrepreneurs

"Shared living spaces are booming in major cities as young people seek a more sociable lifestyle, according to the entrepreneurs behind the "co-living" accommodation trend"

https://www.dezeen.com/2016/04/05/co-living-shared-collective-accommodation-housing-millennials-trend-common-wework/

https://www.dezeen.com/2016/07/08/six-best-co-living-developments-around-the-world/

MINI's co-living destination in Shanghai "brings know-how from vehicles into places where we live"

Car brand MINI is diversifying into urban development with the MINI Living building in Shanghai, which will see a disused industrial complex transform into apartments, offices and leisure spaces

The brand is working with Chinese developer Nova Property Investment Co on the project, which involves converting a former paint factory in the city's Jing'An district into a space for co-living and working that also promotes engagement with the local community.

https://www.dezeen.com/2017/11/23/mini-co-living-destination-shanghai-china-industrial-architecture-residential/

Encourage international interaction and collaboration

Strategy 2 - Reasons for interaction between locals and internationals

Commercial

Commercial

1 KM

Implementation 2 - Places for interaction

SelgasCano completes plant-filled co-working space inside Lisbon market hall for Second Home

Spanish studio SelgasCano has transformed part of Lisbon's oldest food market into a plant-filled co-working space for Second Home, which is furnished with winding communal tables and mid-century chairs.

"We wanted absolutely to maintain that inherited idea of one single open space, getting small companies to share a huge table divided in three, encouraging relationships," explained architect Lucia Cano.

"The flowing design of the table gives members their own area of private space to focus on their work whilst keeping a sense of community."

https://www.dezeen.com/2017/02/14/second-home-lisboa-market-hall-co-working-plants-office-selgascano-portugal/

**Green Open Border
Visual Reference**

https://divisare.com/projects/244824-turenscape-bridged-gardens

Spatially embed in local context

Strategy 1 - Embed with respect to local context

Strategy 1
Embed the urban developments with respect to local landscape and uses

Implementation 1
Soften the security barrier of ICBC

Implementation 2
Embed the Khorgos expansion in surrounding context

Strategy 2
Expand and densify starting from the existing settlements

Implementation 1
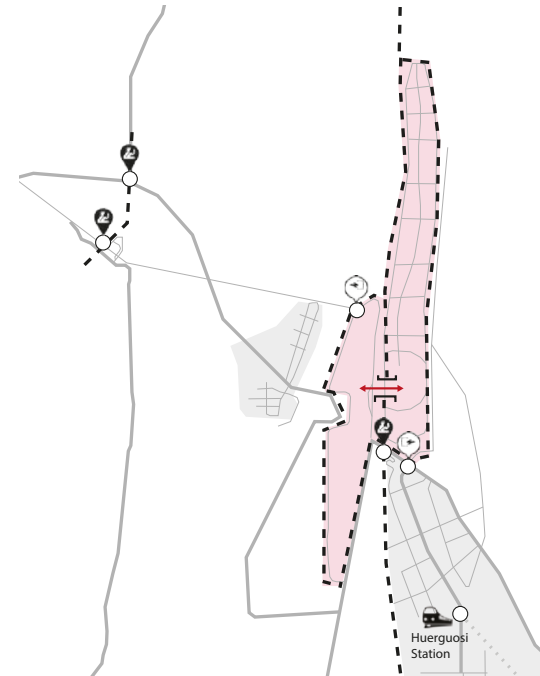Expansion model of phased units

Implementation 2
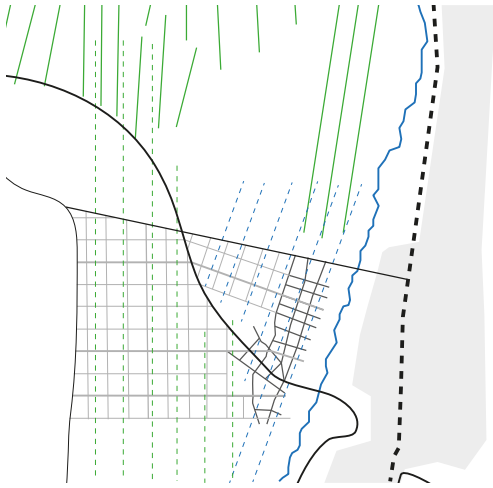Expand and densify Khorgos
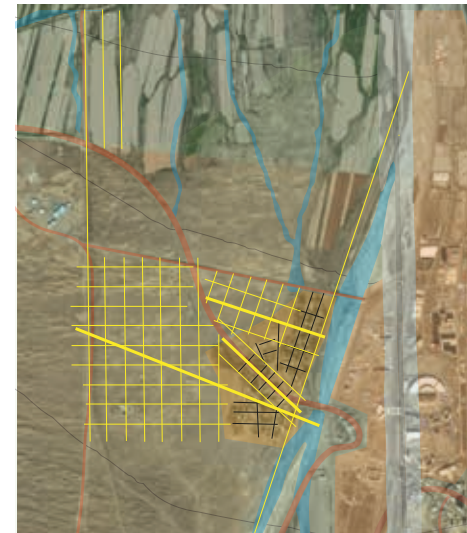
Strategy 1
Implementation 1 - Soften the border
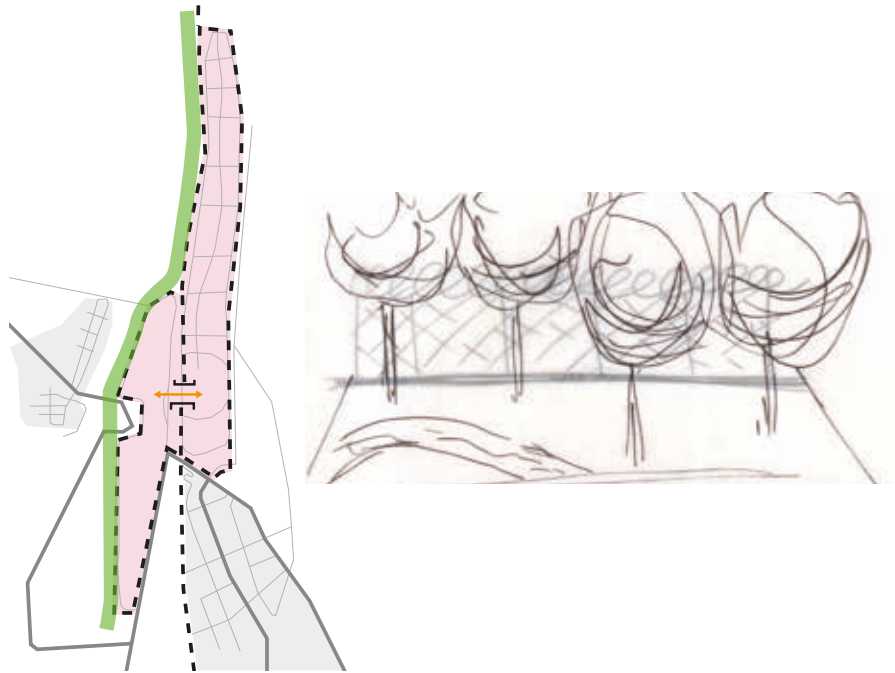
DOMO Architecture + Design Mexico border

Existing situation

Huerguosi
Station

Strategy 1
Implementation 2 - Embed Khorgos expansion
Also applies to strategy 2

A — SEZ / free housing workers / existing commercial / river recreation / ICBC

20 floor / 10 floor / 2 floor

B — Alatau Mountains / 50 m / private housing development / park / commercial / existing

floor = 60 = 80 m

existing — 1.5 km
river — 1 km
ICBC — 1 km
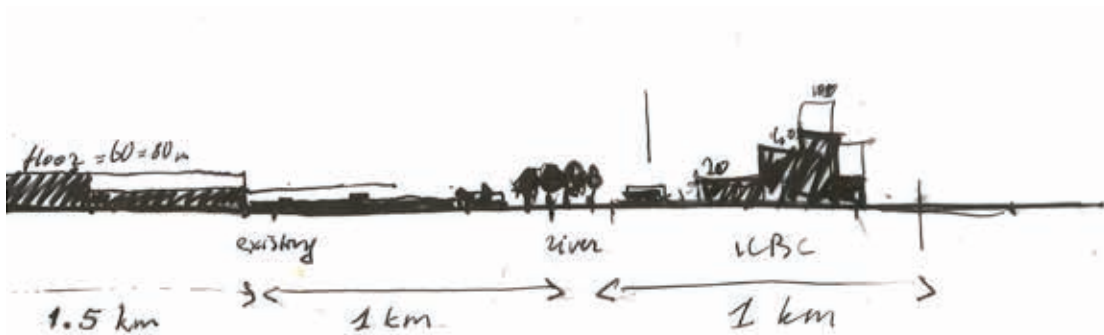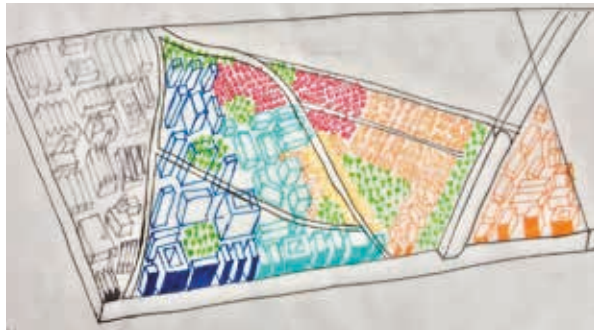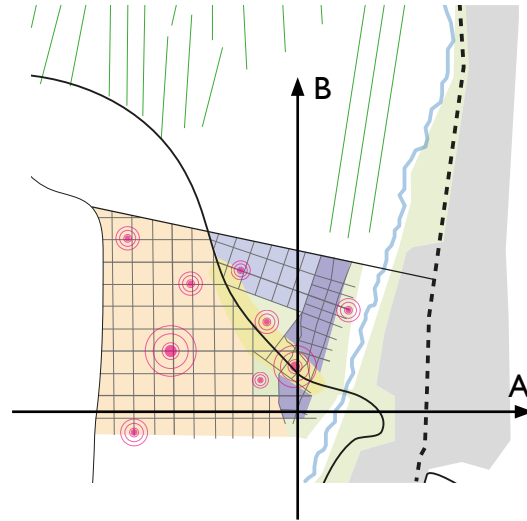
Existing situation

Khorgos current situation

New-town Nurkent

Newtown Nurkent constructed to support Khorgos Gateway

Spatially embed
in local context

Strategy 1
Embed the urban develop-
ments with respect to local
landscape and uses

Implementation 1
Soften the security barrier of
ICBC

Implementation 2
Embed the Khorgos expansion
in surrounding context

Strategy 2
Expand and densify starting
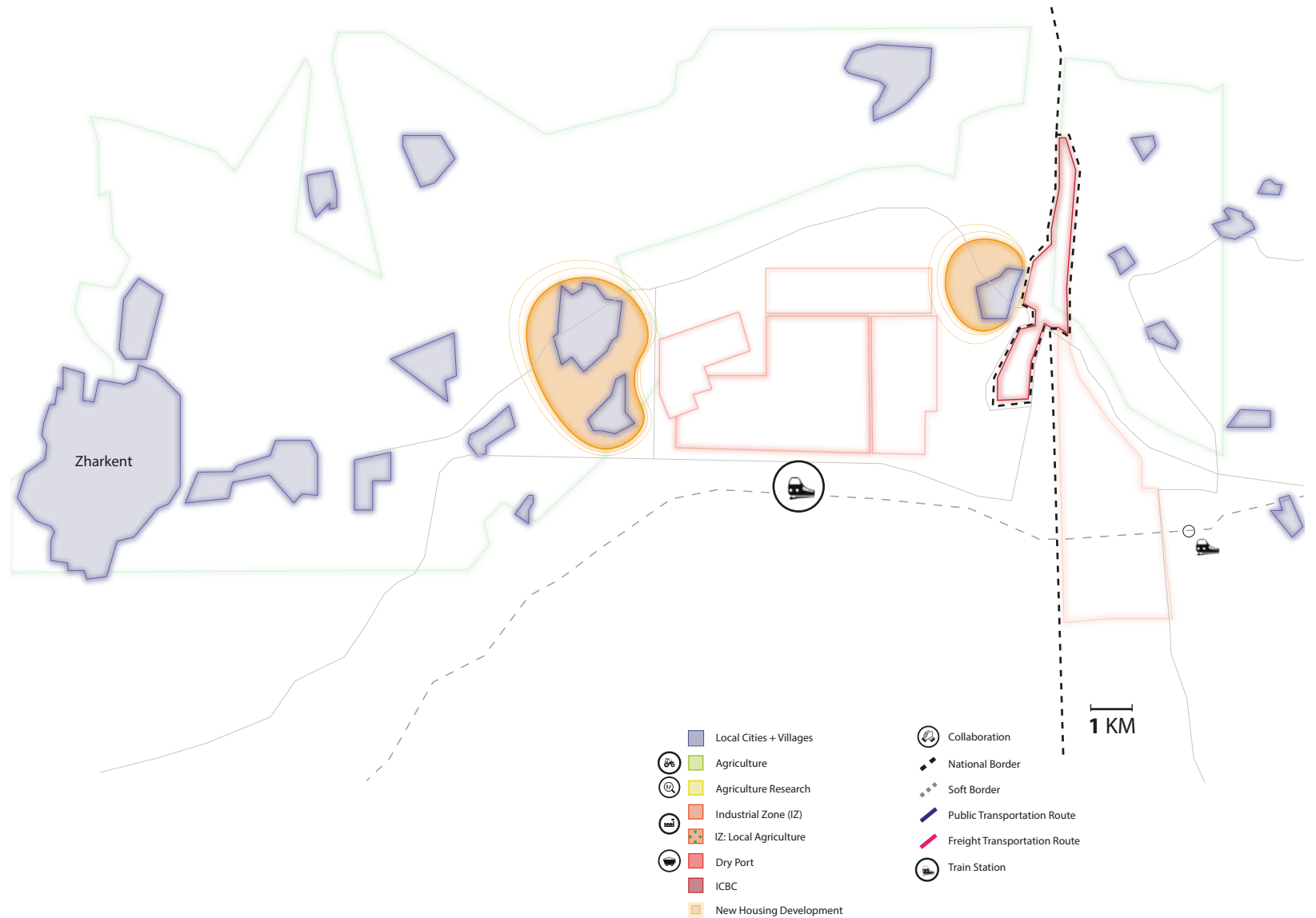from the existing settlements
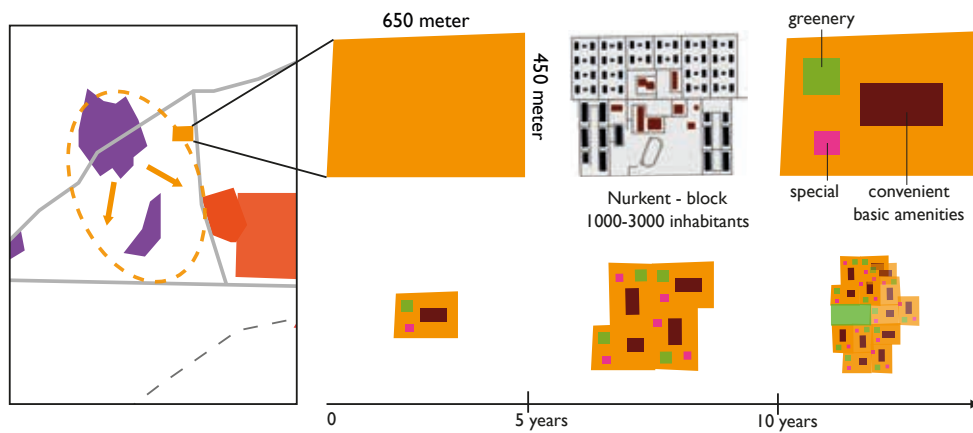
Implementation 1
Expansion model of phased
units

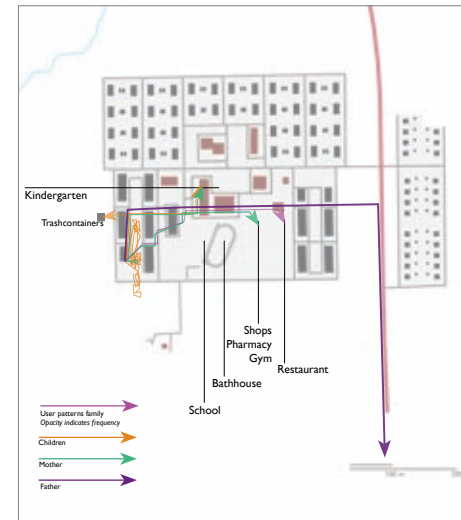**Implementation 2**
Expand and densify Khorgos

Strategy 2 - Expand and densify from existing settlements

Zharkent

1 KM

Local Cities + Villages

Agriculture

Agriculture Research

Industrial Zone (IZ)

IZ: Local Agriculture

Dry Port

ICBC

New Housing Development

Collaboration

National Border

Soft Border

Public Transportation Route

Freight Transportation Route

Train Station

Strategy 2
Implementation 1 - Unit expansion

650 meter

450 meter

greenery

Nurkent - block
1000-3000 inhabitants

special   convenient
basic amenities

0   5 years   10 years

Existing situation

Kindergarten

Trashcontainers

Shops
Pharmacy
Gym
Restaurant
Bathhouse
School

User patterns family
Opacity indicates frequency

Children

Mother

Father

Newtown Nurkent
Nothing to do

Celebrate the gems of local culture and Silk Route

Strategy 1 - Expand and densify from existing settlements

Strategy 1
Khorgos Silk Road & Culture Heritage Hub

Implementation 1
Provide Silk Route touring packages to China and Kazakhstan

Implementation 2
Local village life experience

Implementation 3
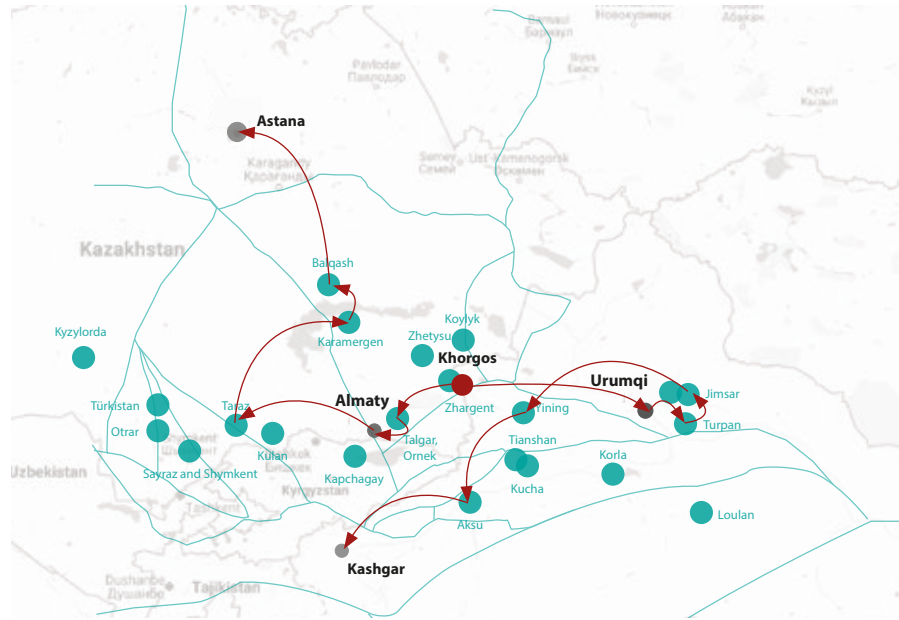Museum/info/edu centre regional Silk Route Heritage

Implementation 4
Cross-border hubs interaction installation
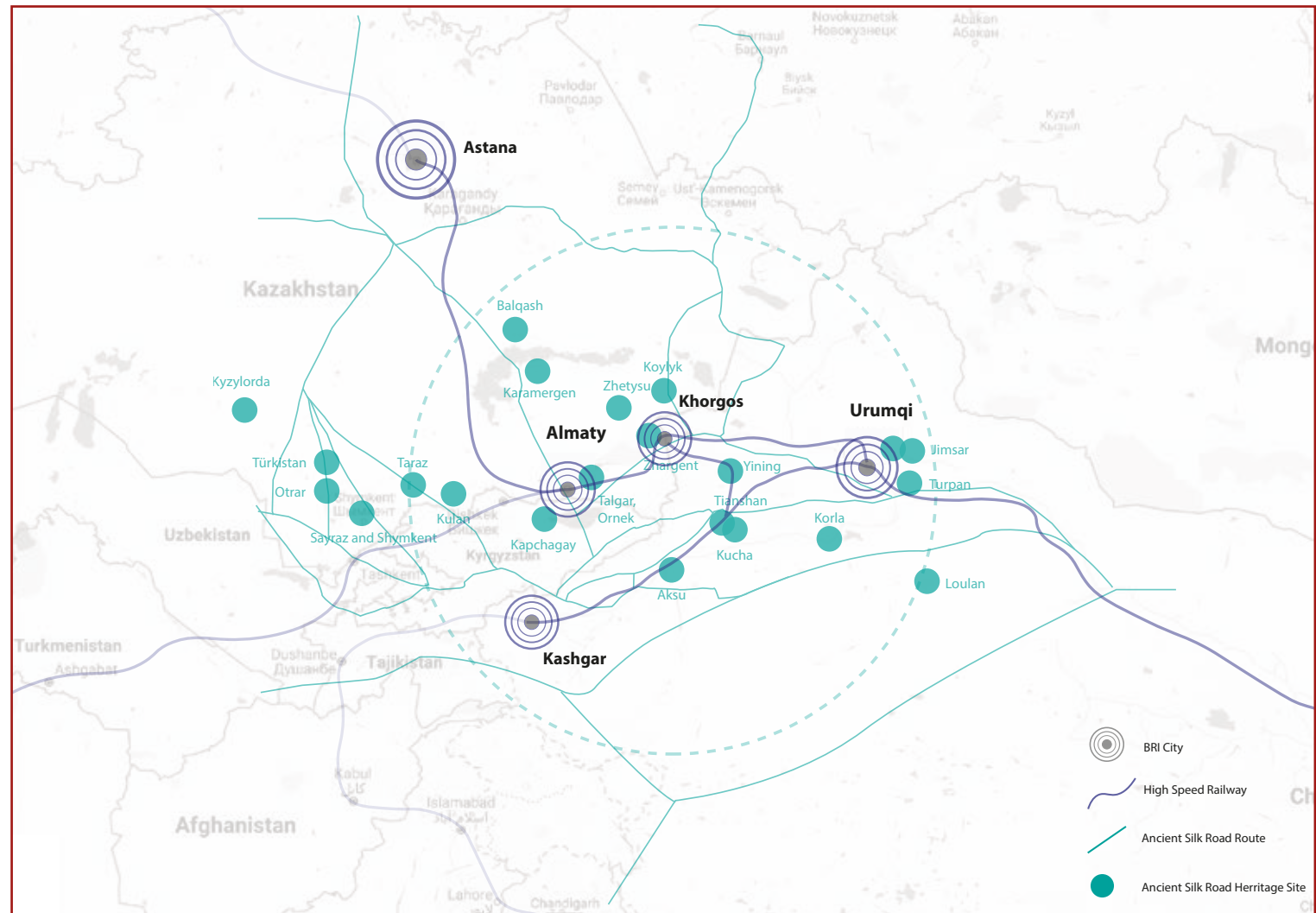
Strategy 1
Implementation 1 - Silk Route Tours

The modern musart

a musart route inspired contemporary silk route

CHINA

KHOURGOS - URUMQI - YINING - AKSU - KASHGAR

A 6-DAY TRIP
THROUGH CHINA'S
MOST PRECIOUS
SILK ROUTE GEMS

The modern musart

a musart route inspired contemporary silk route

KAZAKHSTAN

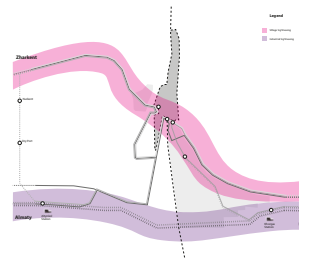*KHOURGOS - TARAZ - AKYRTAS - KARAMERGEN - ASTANA*

A 10-DAY TRIP
THROUGH
KAZAKHSTAN'S
MOST PRECIOUS
SILK ROUTE GEMS

Strategy 1
Implementation 2 - Local village experience

Source: travel pictures.

day 1
URUMQI CITY STROLLING
discover the vibrant city center of Urumqi, visiting its most famous attractions (mosks, bazaars and main roads).

day 4
YINING
the northern point of the famour Muzart Pass, Yining is an unmissable stop in the Silk Route tour. Take a look at the unique architecture in the city and visit the outskirts, where rural live has changed little.

day 2
TURPAN CITY
emerge yourself into the unique Uygur culture by going around Turpan city. Visit the livestock market (on Fridays only), go see the world largest ancient Islamic tower (Emin minaret) and try the local cuisine. If you have time, take a two hour drive to Shanshan town, to see one the gorgeous sand landscapes in Kumtagh Sand Dunes Park.

day 5
AKSU
at the southern point of the Muzart Pass, where both natural and historical sites are a must-see. Aksu has impressive, red stone colored canyons and the Tarim River. Historical spots are the Kizir Thousand-Buddha Cave and the Ruins of Subash Ancient Buddha Temple.


day 3
JIAOHE AND GAOCHANG
it is time for the first ruins: Jiaohe (5 km west from Turpan) and Gaochang (30 km west from Turpan) will be visited. Two well-preserved ruins that used to be important Silk Route centers.

day 6
KASHGAR
the last stop is Kashgar. With a population of over 500.000, it is fair to say that Kashgar 'city live' must be explored. But apart from modern Kashgar life, the city also has beautiful remains of Silk Road times, like Kashgar Stone City, ruins of a once vibrant hub. Other options to visit include Abakh Khoja Tomb, Id Kah Mosque, Karakul lake and Three Immortals Buddhist Caves.
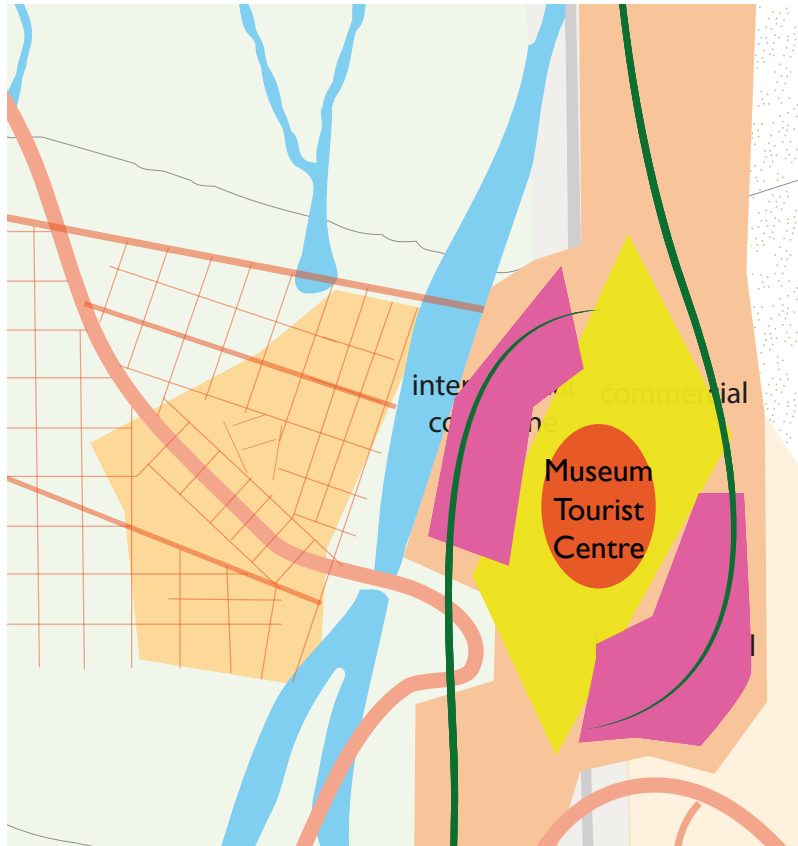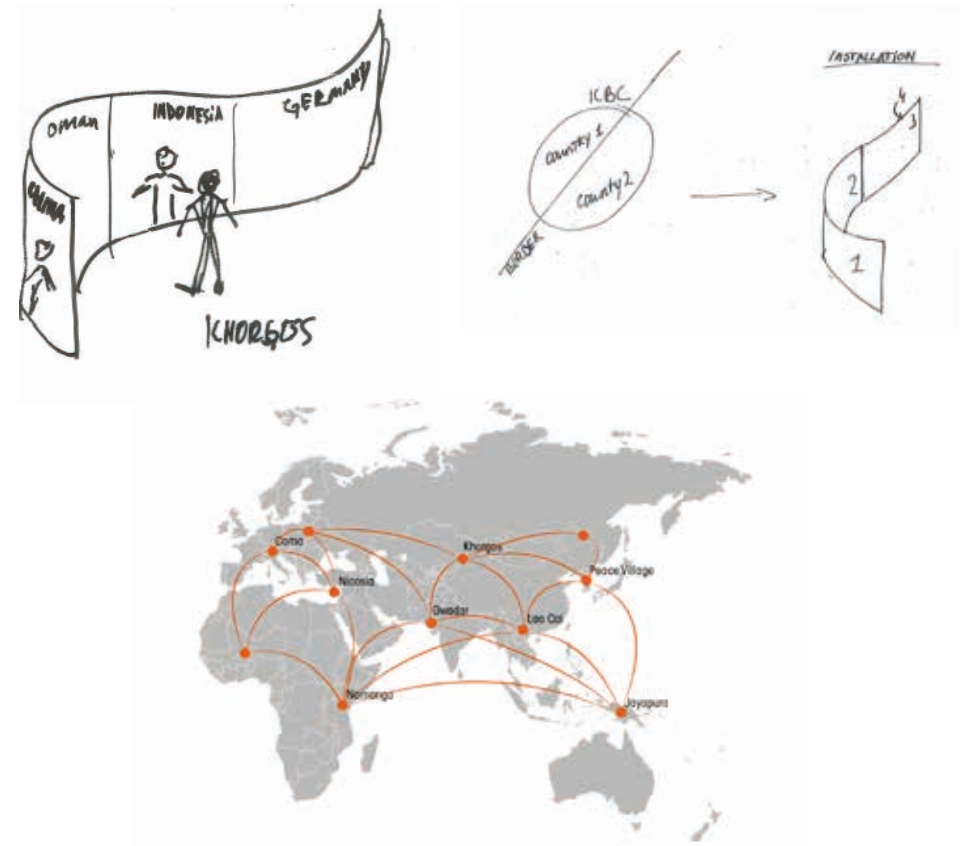
Based on the scenario where ICBC's will be spread all over the world. An installation of double sided screens (two countries on different sides of one border), that acts like a portal and gives the possibility to observe the people on the other side of the world or oven interact with them. A kind of global Skype conversation.
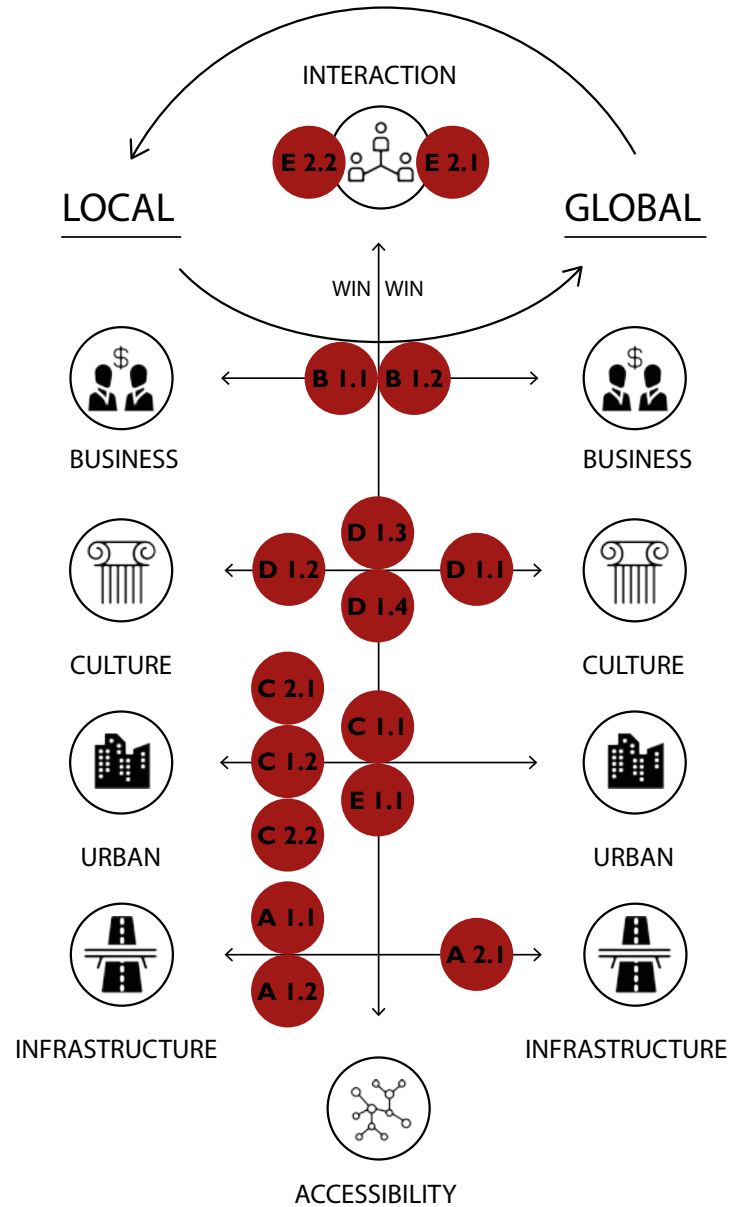
Design impact

S

M

L

XL

Design summary

Encourage inter-national interaction and collaboration at ICBC — **E**

Celebrate the gems of local culture and Silk Route — **D**

Embed ICBC in local context — **C**

Leverage the potential of the local region — **B**

Easy accessibility throught efficient connection — **A**

INTERACTION

E 2.2   E 2.1

LOCAL   GLOBAL

WIN WIN

BUSINESS   B 1.1 B 1.2   BUSINESS

D 1.3
D 1.2   D 1.1
D 1.4

CULTURE   CULTURE

C 2.1
                              C 1.1
C 1.2
                              E 1.1
C 2.2

URBAN   URBAN

A 1.1
                                                     A 2.1
A 1.2

INFRASTRUCTURE   INFRASTRUCTURE

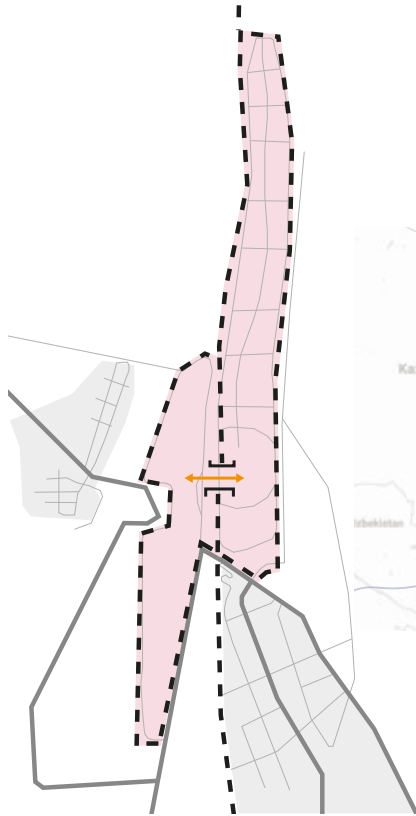ACCESSIBILITY

Research question

How can urban planners and designers
shape the Belt and Road Initiative to
create interactive urban environments
for a globalized future?

Proposal

*ICBC as a typology for BRI spatial
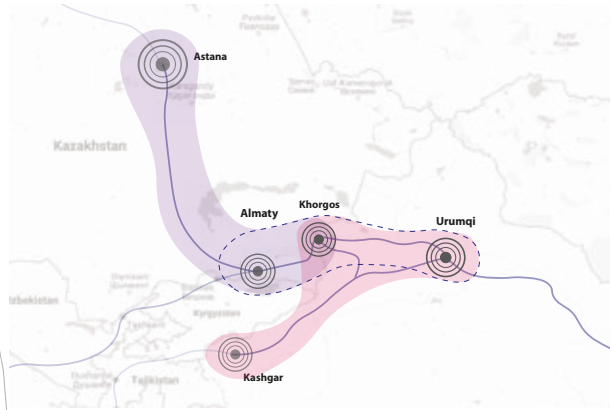development*

Network of globalised pockets

ICBC as a typology for BRI spatial development

ICBC

Internation Centre for Border Cooperation

ICBC within supporting cluster

ICBC along the New Silk Route. Local context can tap into the globalized pocket as needed

Global network of intercommunicating ICBC's

Network of globalised pockets
ICBC as a typology for BRI spatial development
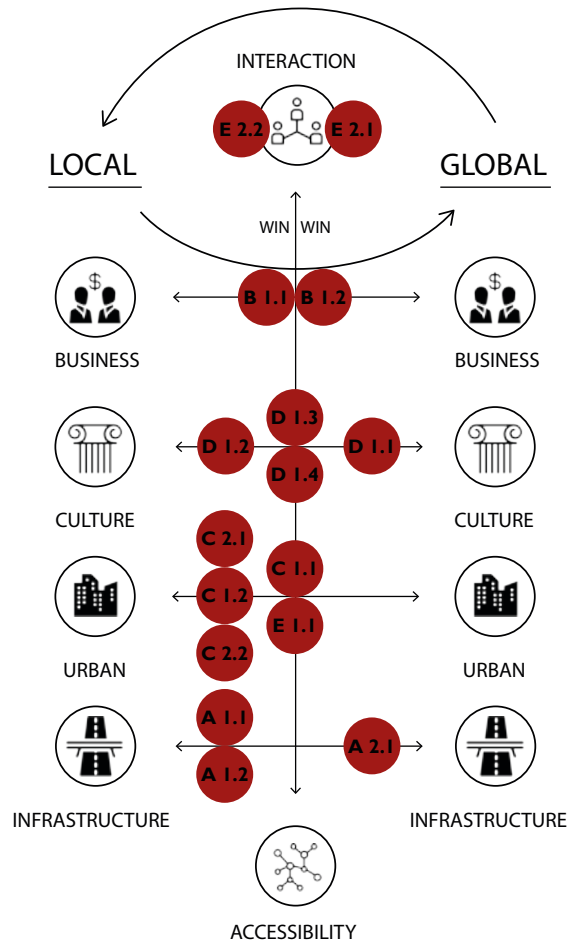
Overview Design

Encourage international interaction and collaboration at ICBC

Celebrate the gems of local culture and Silk Route

Embed ICBC in local context

Leverage the potential of the local region
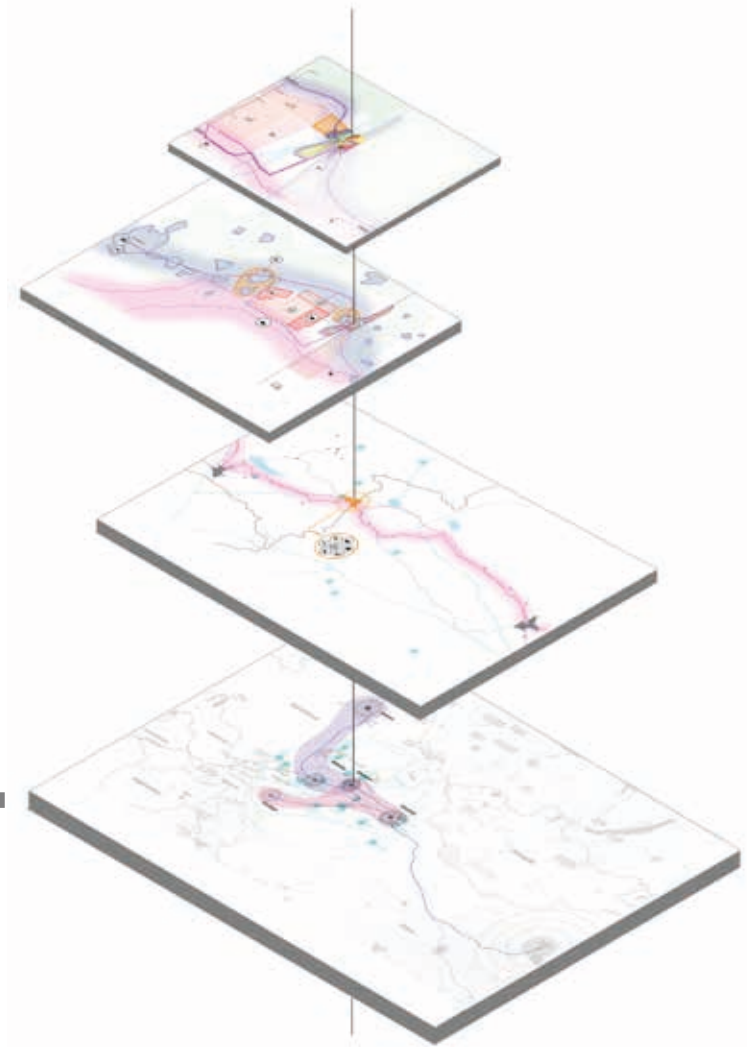
Easy accessibility throught efficient connection

INTERACTION

E 2.2   E 2.1

LOCAL   GLOBAL

WIN   WIN

B 1.1   B 1.2

BUSINESS   BUSINESS

D 1.3
D 1.2   D 1.1
D 1.4

CULTURE   CULTURE

C 2.1
C 1.1
C 1.2
E 1.1
C 2.2

URBAN   URBAN

A 1.1
A 2.1
A 1.2

INFRASTRUCTURE   INFRASTRUCTURE

ACCESSIBILITY

S

M

L

XL

Plans towards P5

Further develop the following aspects:
Time - phasing of each strategy and implementation over time. Short-term and long-term results.

Evaluation - detail the working of the evaluation and assessment tool. How is is used to assess the design? How is it used to determine the development goals. How to the different domains (business, culture, urban infrastructure relate to each other)?

Effect for the BRI as a system - elaborate and explain more how the effect of my project affects the BRI as it is proposed now. Map showing how several polycentric clusters connect and interact with eah other.

Considered products (next to P5 report):
Booklet: 'BRI spatial agenda' (???). A document containing vision, recommendations and strategies (based on my report) for future spatial development of the BRI.

'Stories of the New Silk Route'. Visual explorations of interactions between global and local at ICBC and within the BRI as a system. Could be a separate document or a part of the 'BRI spatial agenda'.