

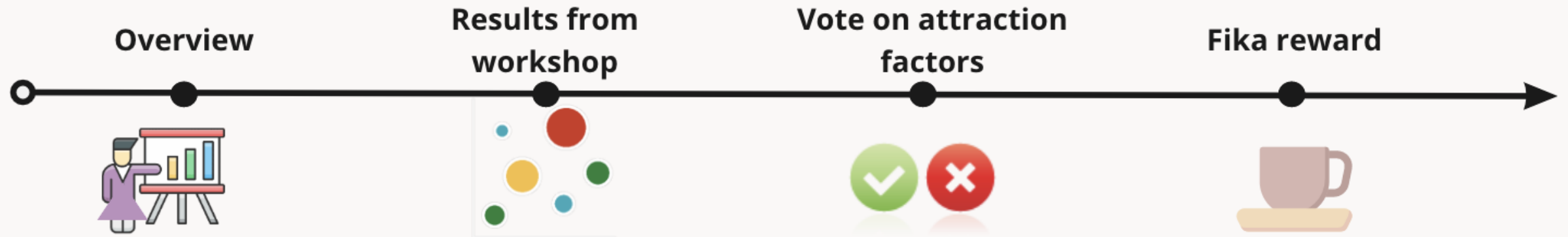
Linn Friis-Liby

Space science and technology student at LTU

RIT 2021 Delphi study

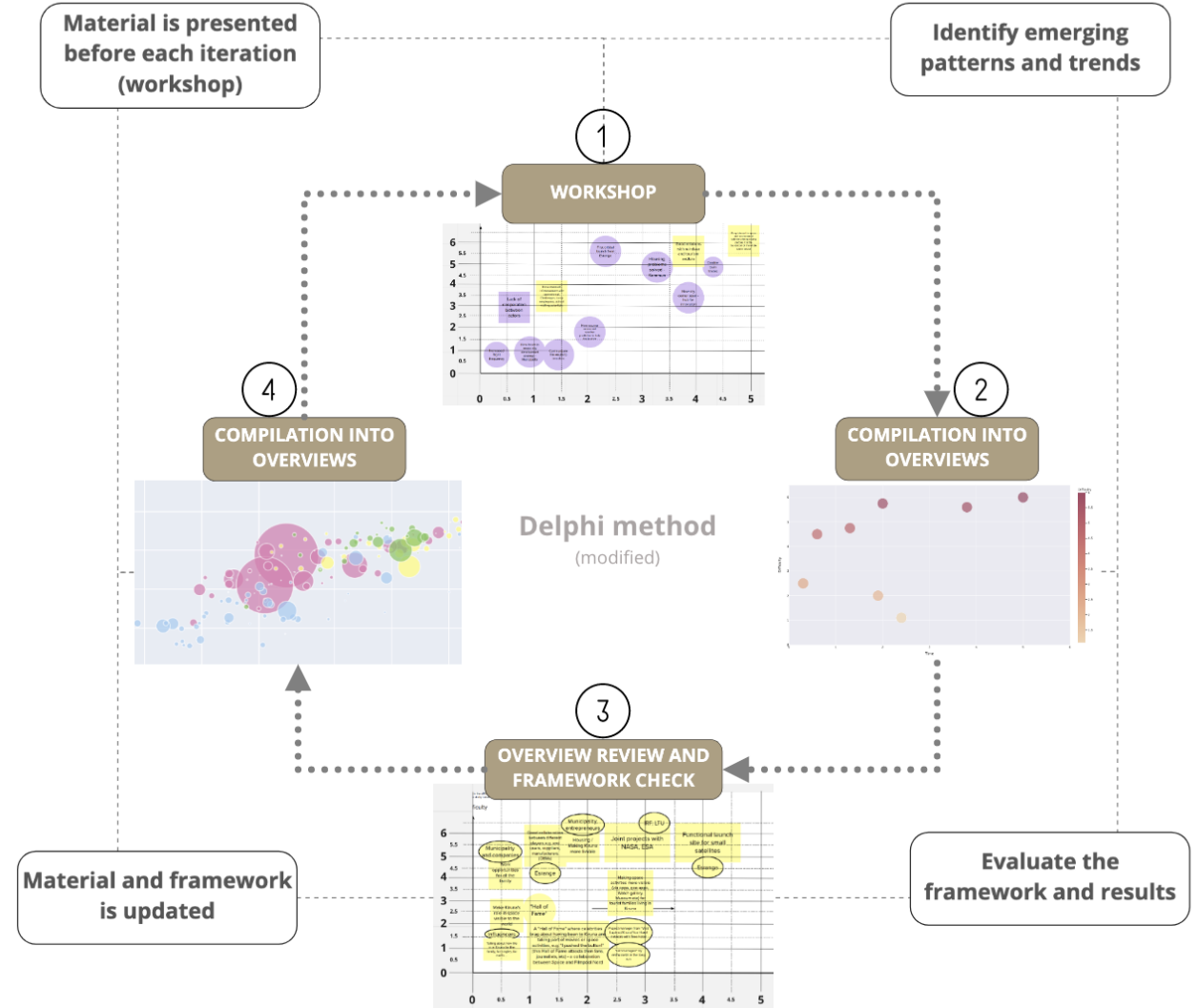
Determining attraction factors for developing the space industry in Norrbotten/Kiruna using a modified Delphi method

Today's presentation



Delphi but make it RIT

- Cycle of iterations
- Evaluates both results and framework
- Originally used for projections – here for identification
- Step 1-4, we are at 3 here today

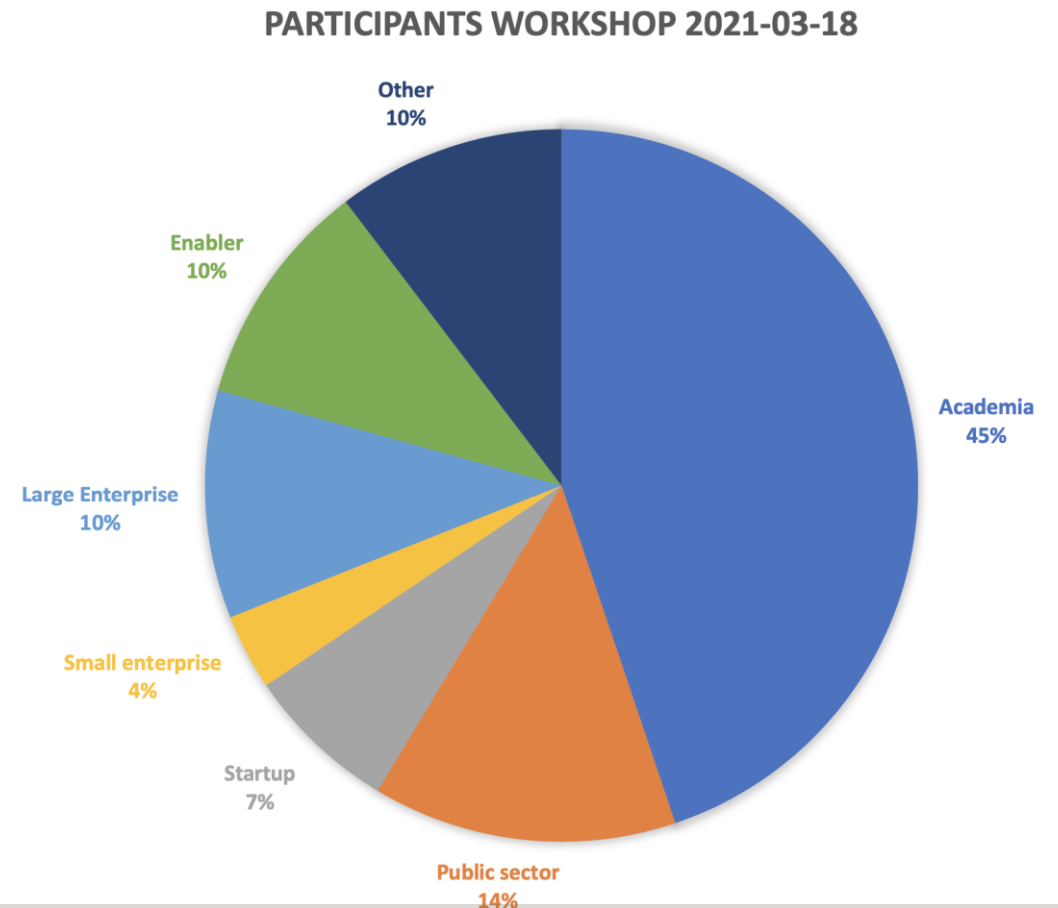


Workshop at Space Innovation Forum 2021

Seven groups of participants, randomised composition.

The main question for the teams to answer:
“What is the Change Path to the future?”

Participant distribution by sector:



Source material – what it looked like

What is the Change Path to the future?

Put your Utopia as the goal and create the path to that utopia.
X axis is time
Y axis is the difficulty of the step
Create sticky notes to create the path.



Source material; weighting

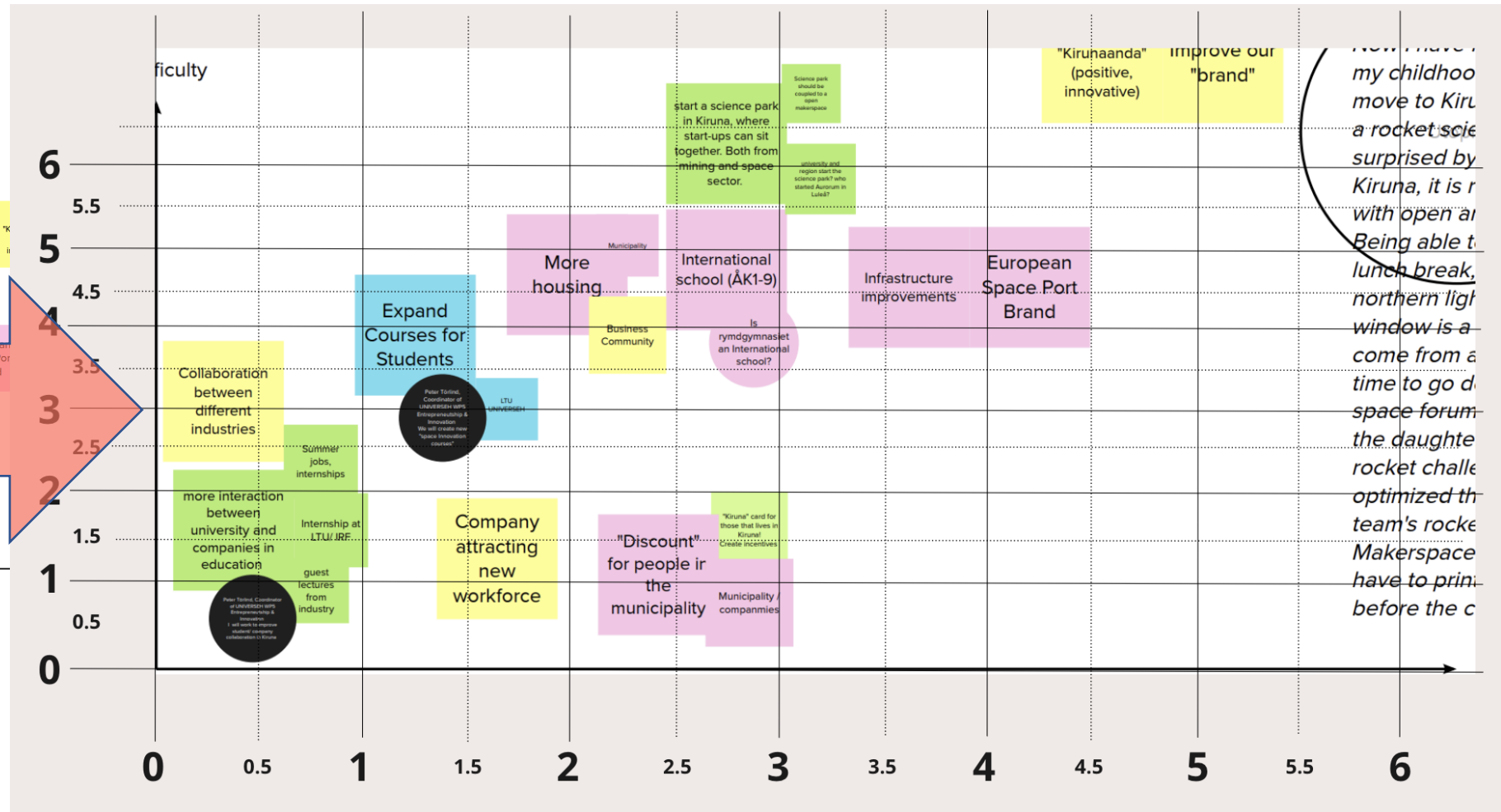
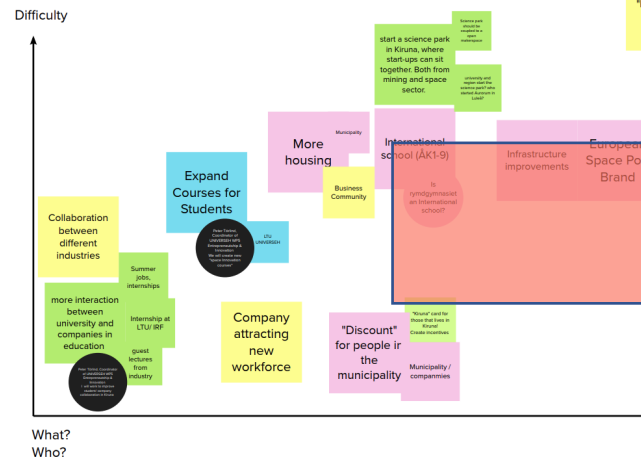
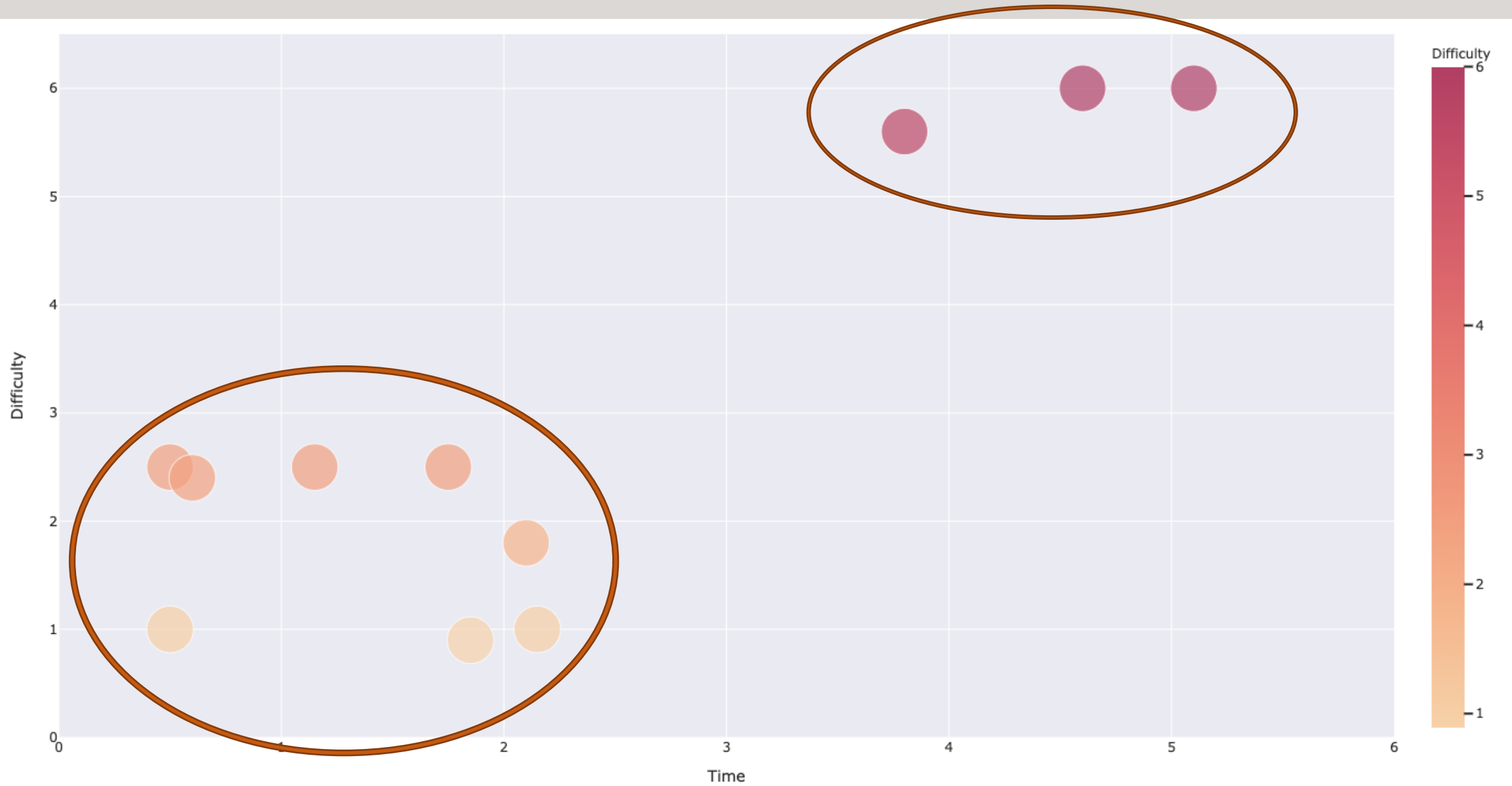


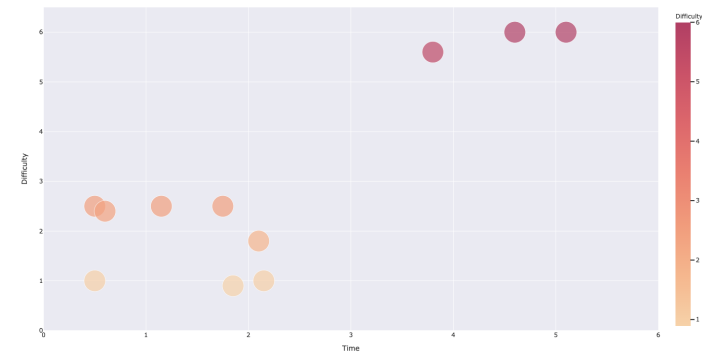
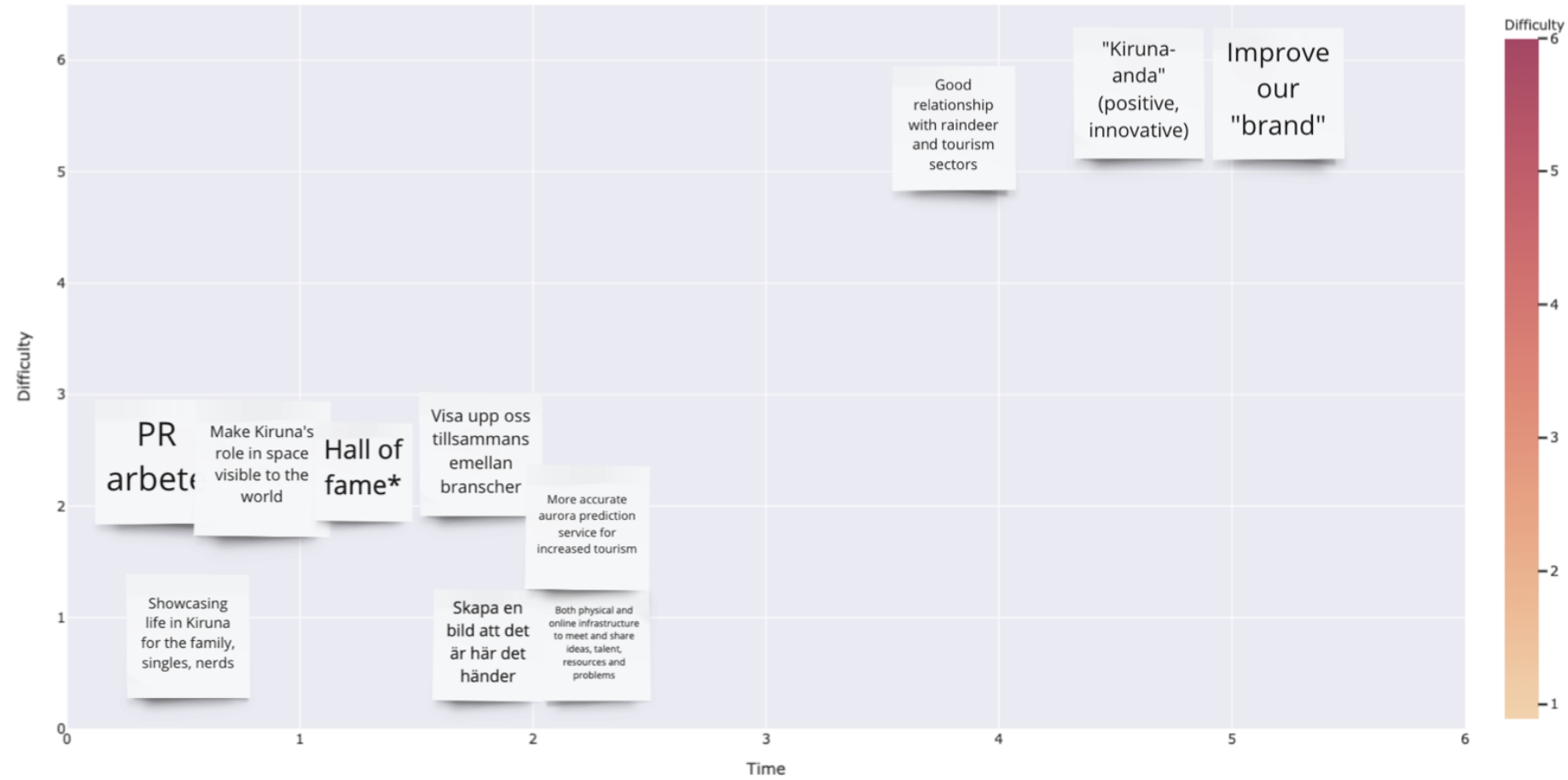
Table summary

Category	Limit	Attraction factor
Crucial	Upper bound	PR Collaboration
Very significant	Mid bound	Housing Transport & Infrastructure
Significant	Lower bound	Space Port Development Innovation Hub & Startups Academic Development

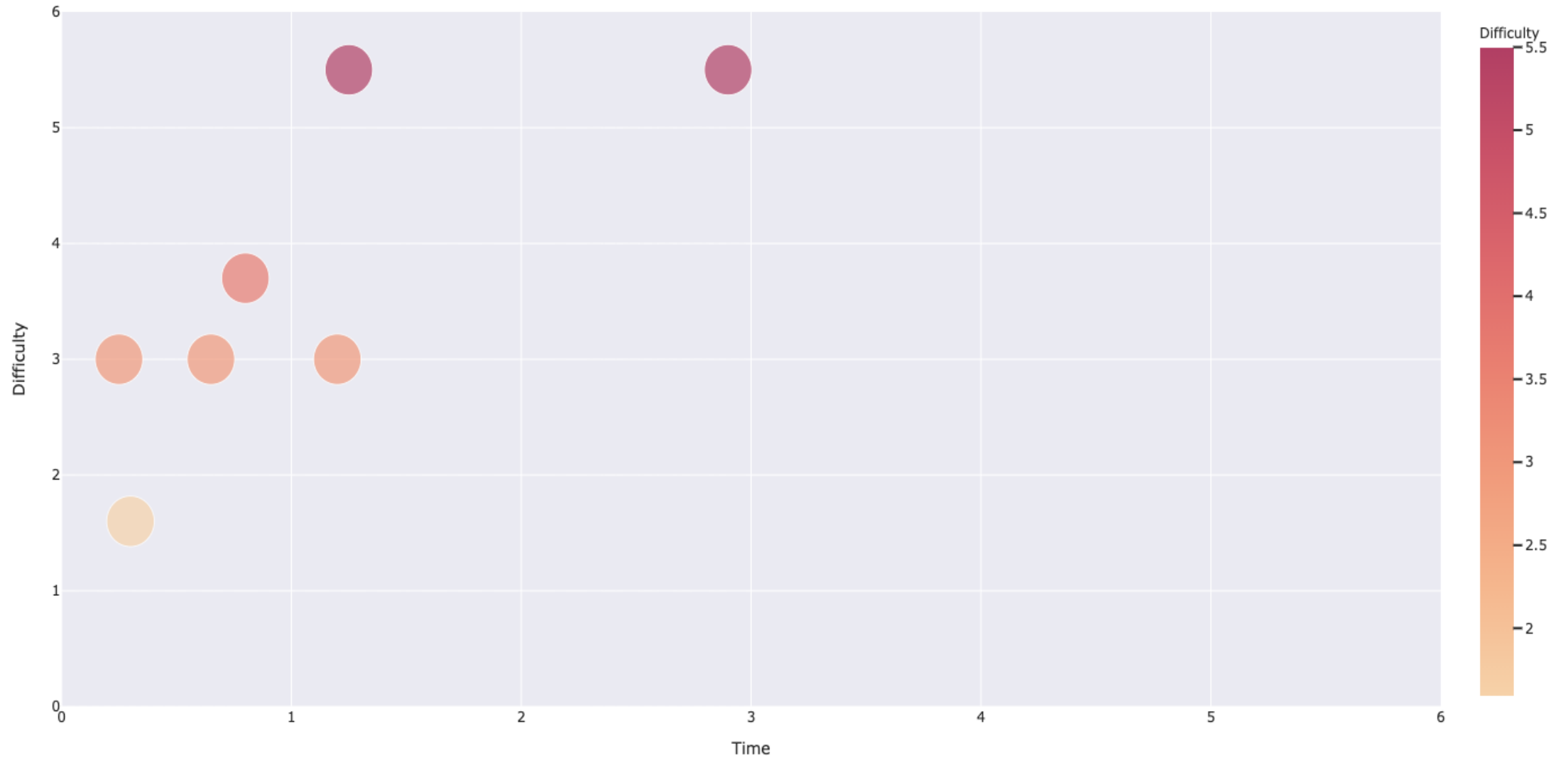
PR Plot



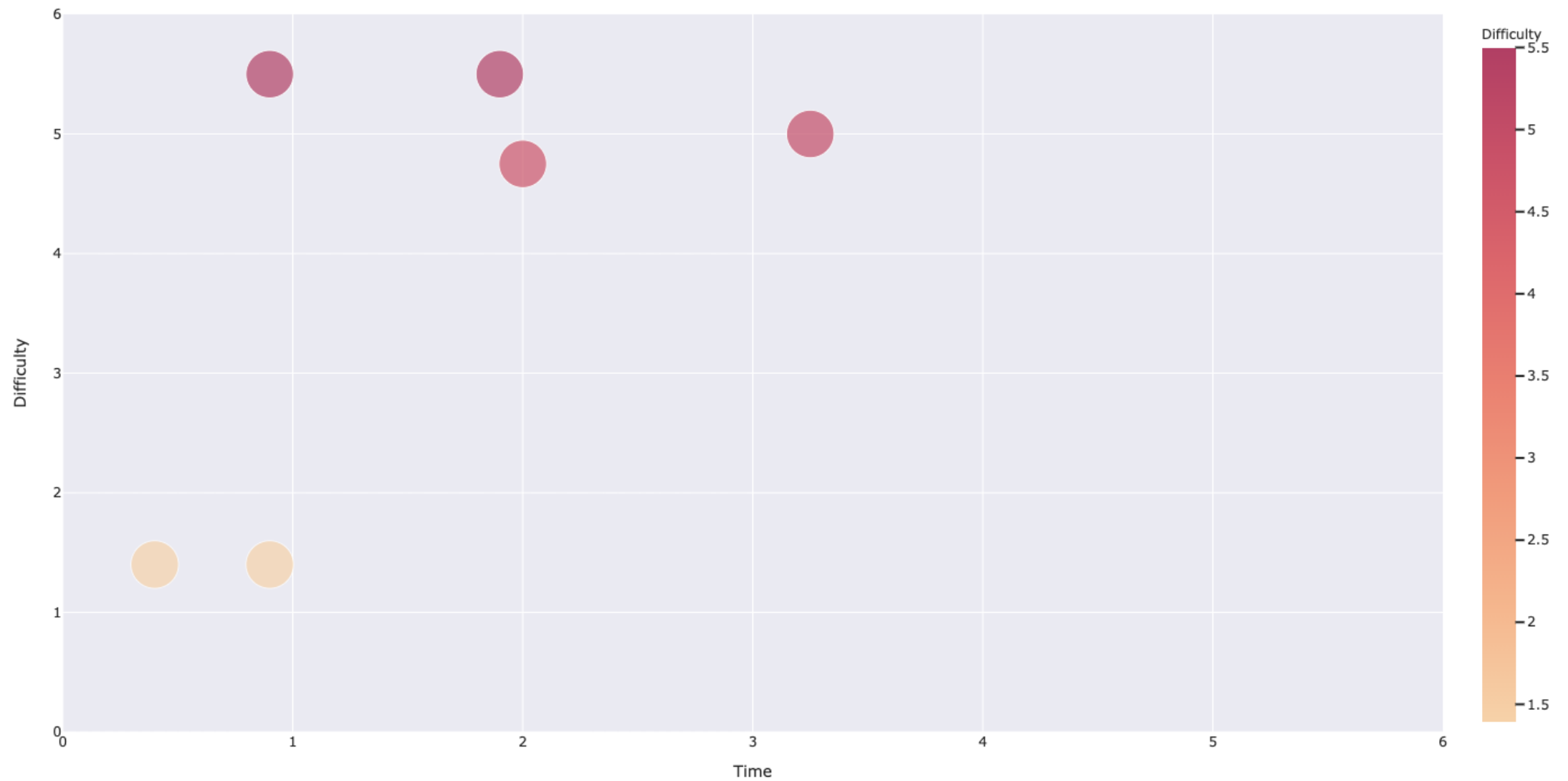
PR Plot



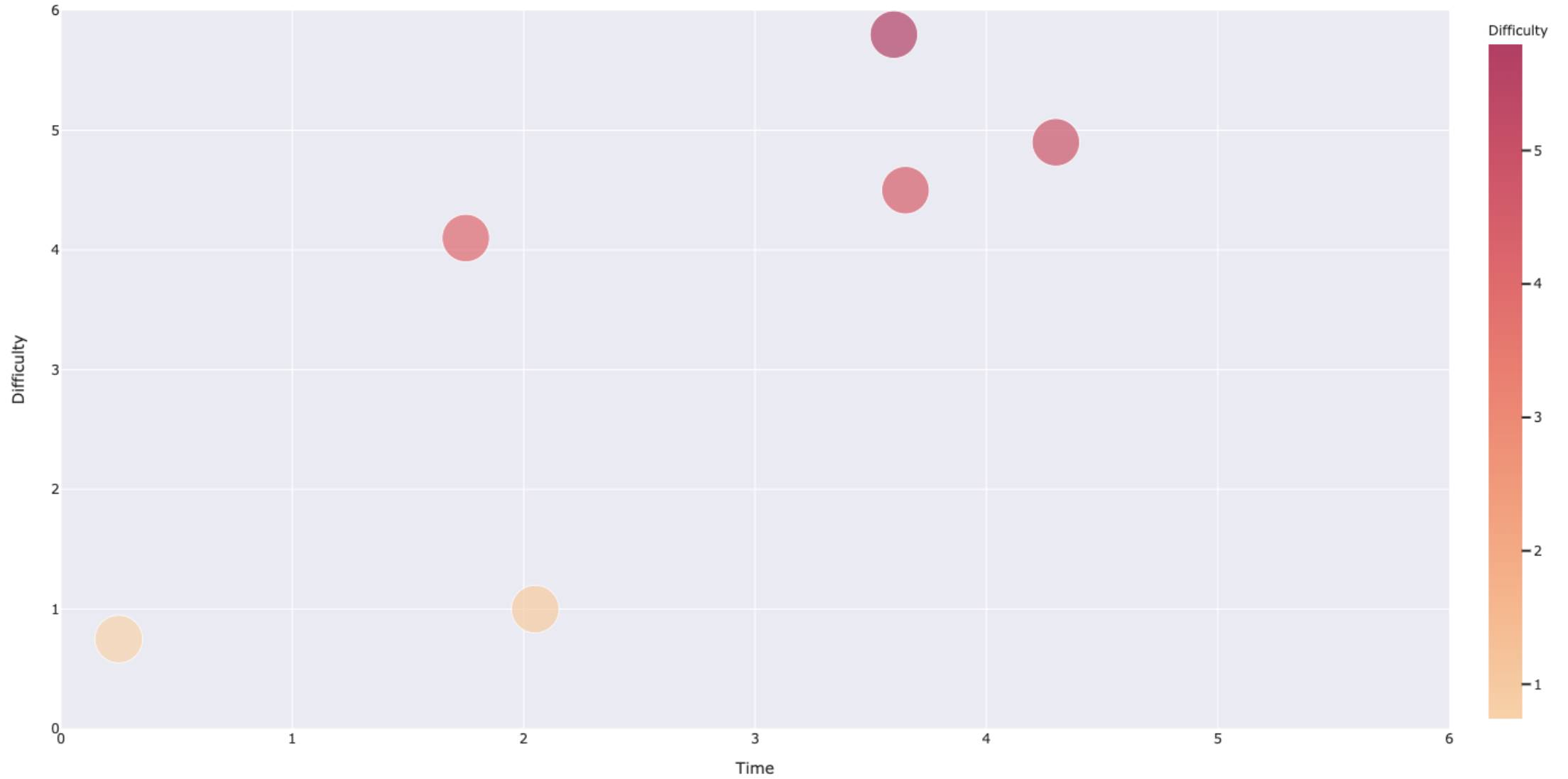
Collaborations Plot



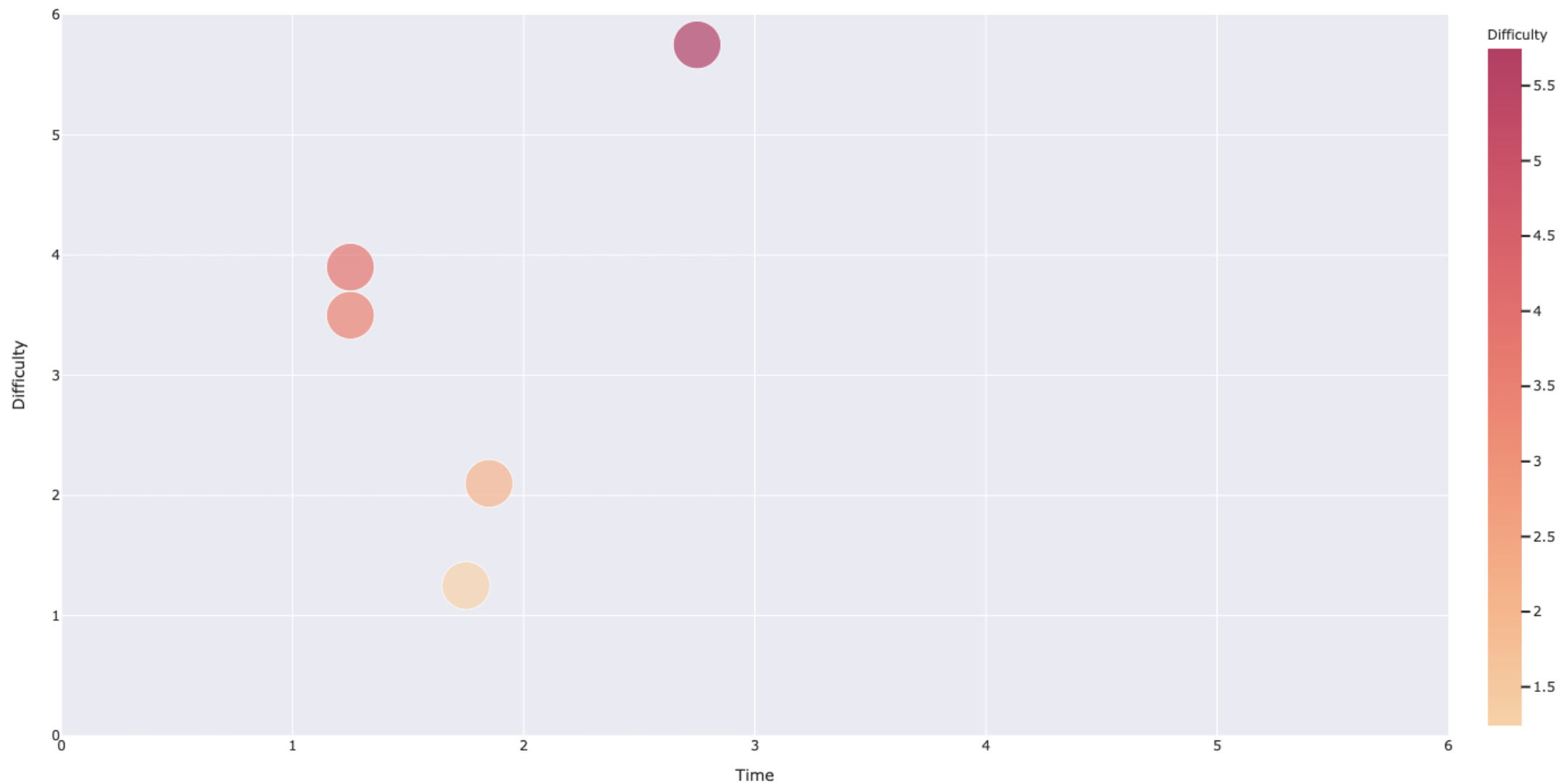
Housing Plot



Transport and Infrastructure Plot



Academic Development Plot



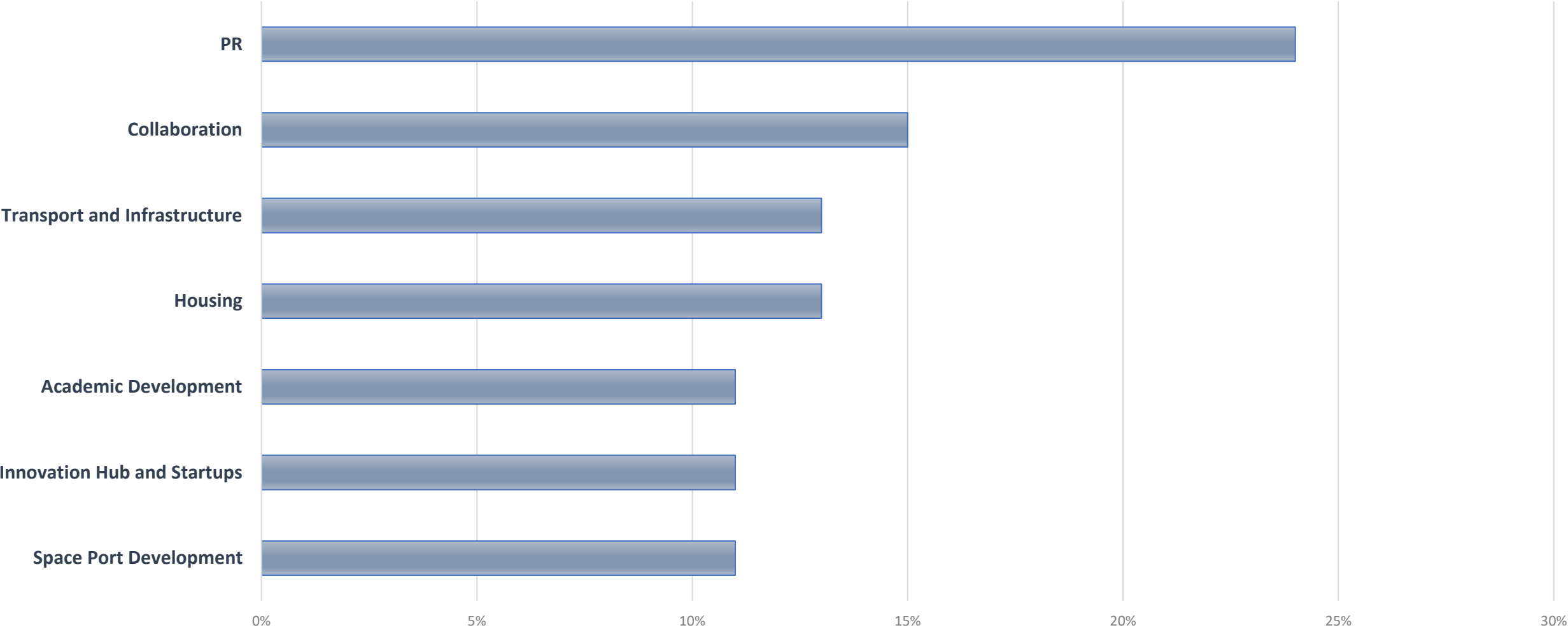
Space Port Development Plot



Innovation Hub and Startups Plot



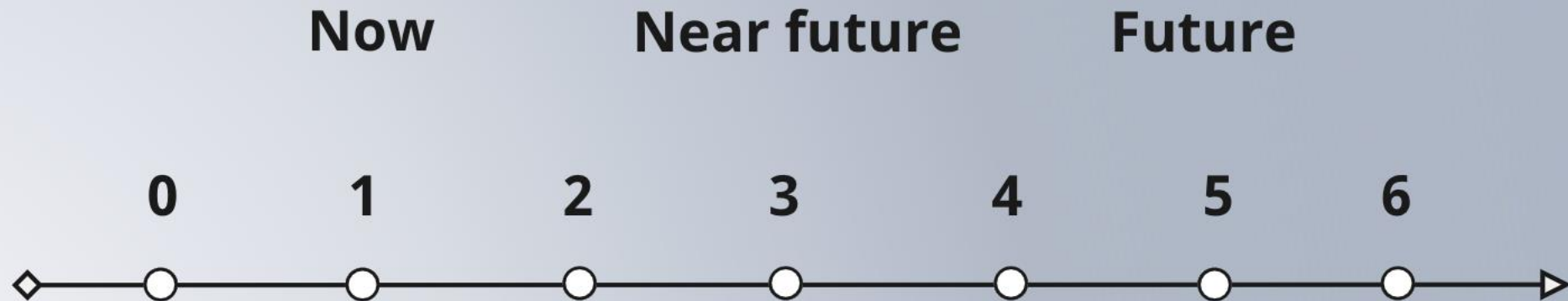
Attraction factors



■ Percent	Space Port Development	Innovation Hub and Startups	Academic Development	Housing	Transport and Infrastructure	Collaboration	PR
	11%	11%	11%	13%	13%	15%	24%

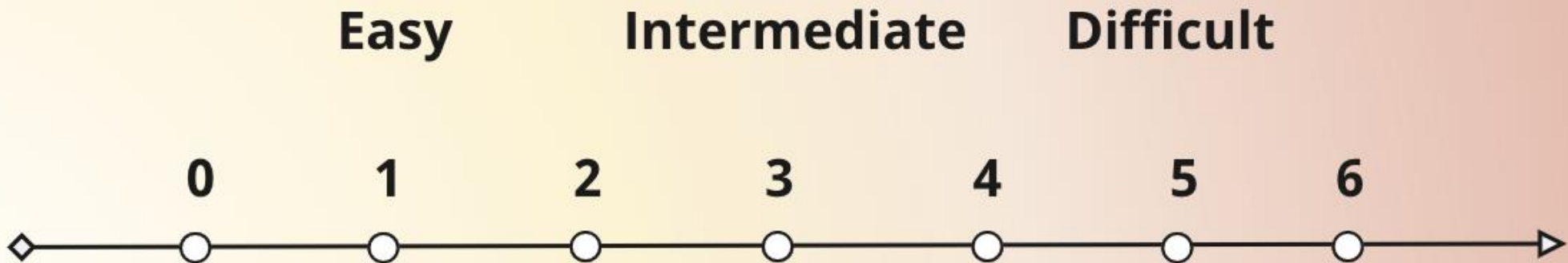
Timeline: Attraction factors

Timeline of an attraction factor:



Difficulty: Attraction factors

Degrees of difficulty of an attraction factor:



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Attraction factors

PR

Skip

Time

1

1

Near Future (0-5 yr)

Distant Future (20+ yr)

Difficulty

1

1

Low

High

Collaborations

Skip

Time

1

1

Near Future (0-5 yr)

Distant Future (20+ yr)

Difficulty

1

2



Mentimeter

Attraction factors order of significance

Select as many as you want in the order you prefer. There are 7 options in total.

1st

✓ Select an option

Housing

PR

Academic Development

Infrastructure and Transport

Space Port Development

Collaborations

Startups and Innovation Hub

3

What do you believe to be missing from attraction factors?

Mentimeter

Legoland

Warm weather

Thank you for your time!