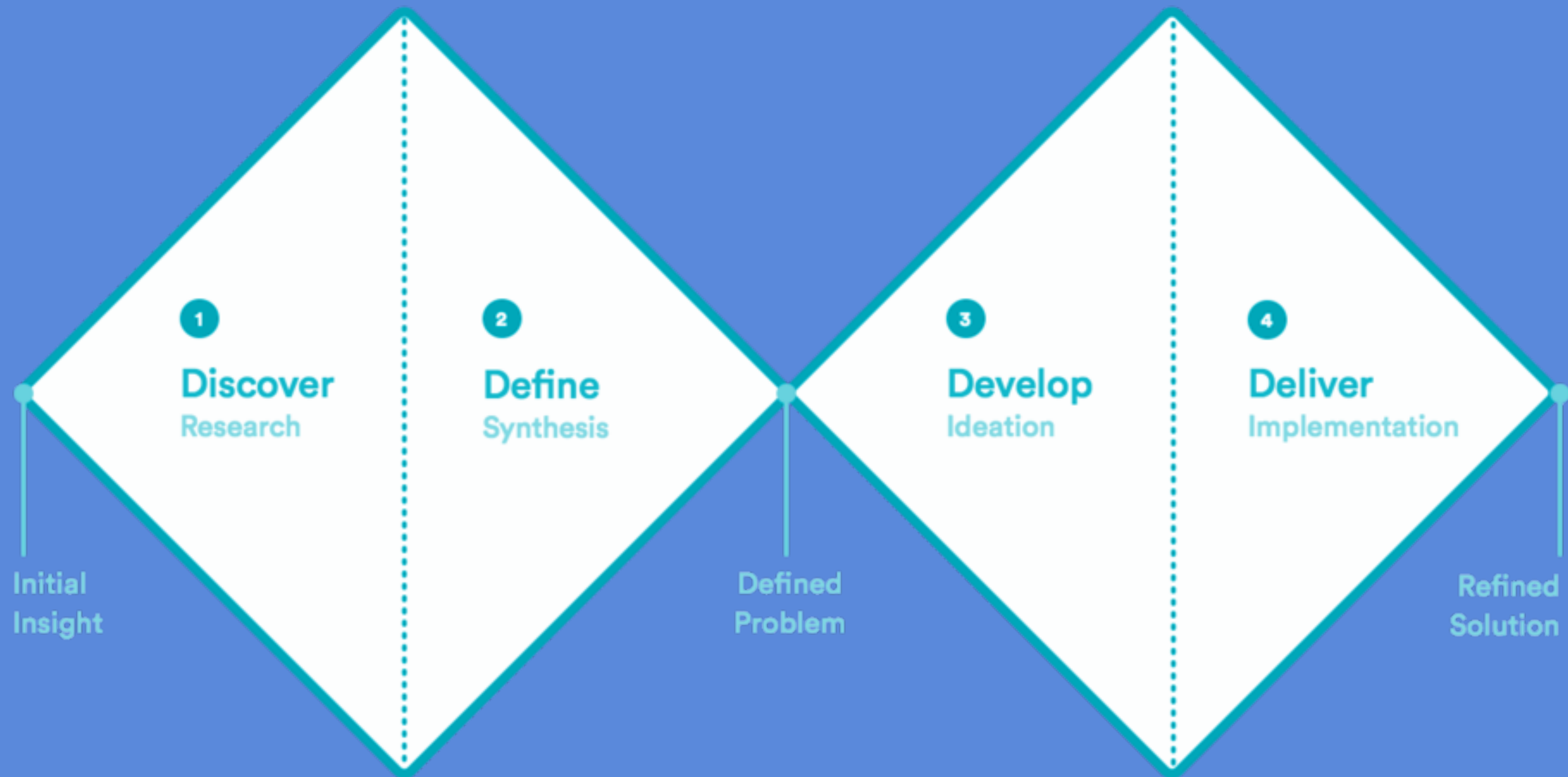


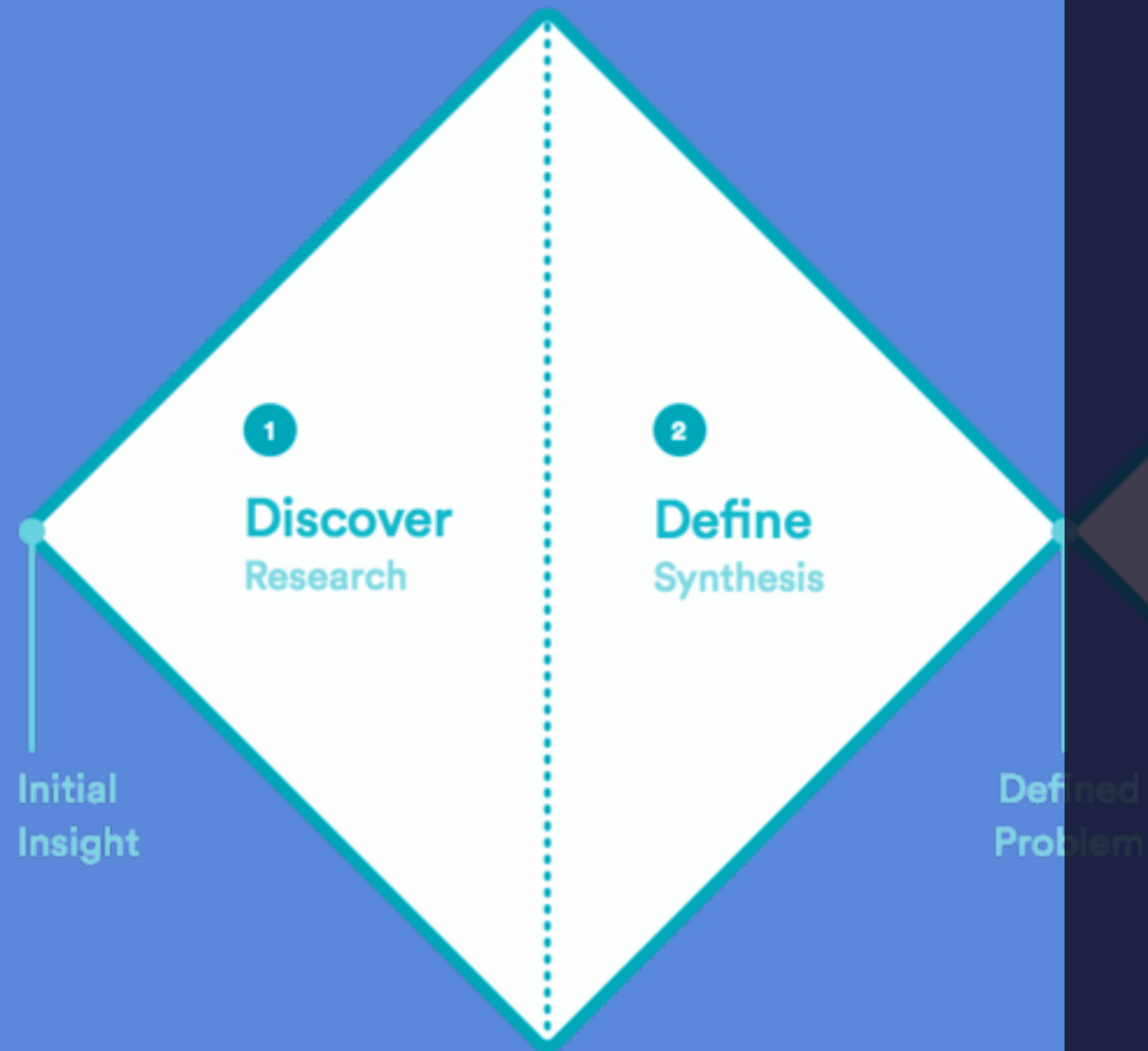
METHODOLOGY

Designing the Right Thing

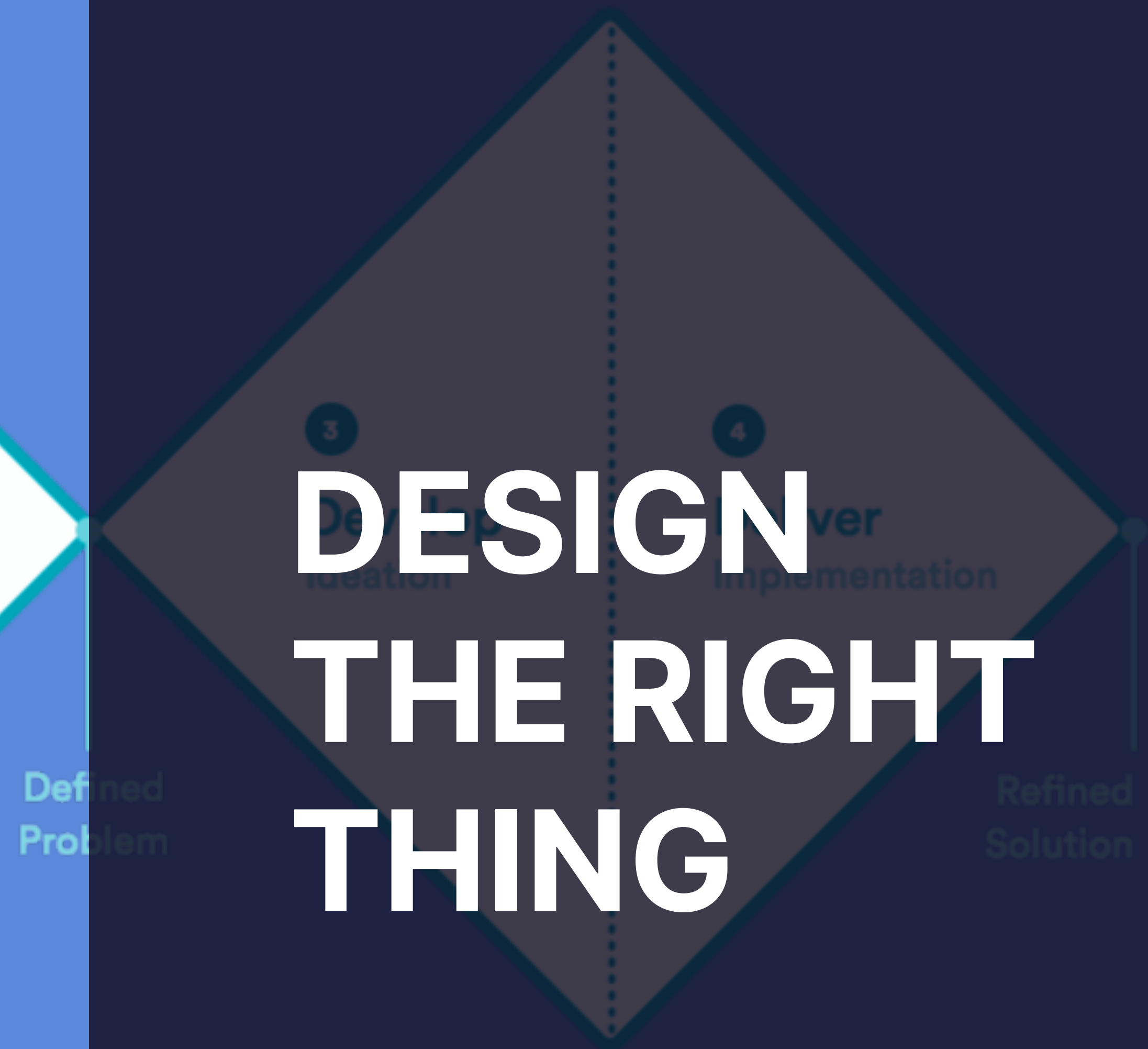
Designing the Thing Right



Designing the Right Thing



Designing the Thing Right



**DESIGN
THE RIGHT
THING**

“We are all beginning to realize that one of the most intractable problems is that of defining problems ... and of locating problems.”

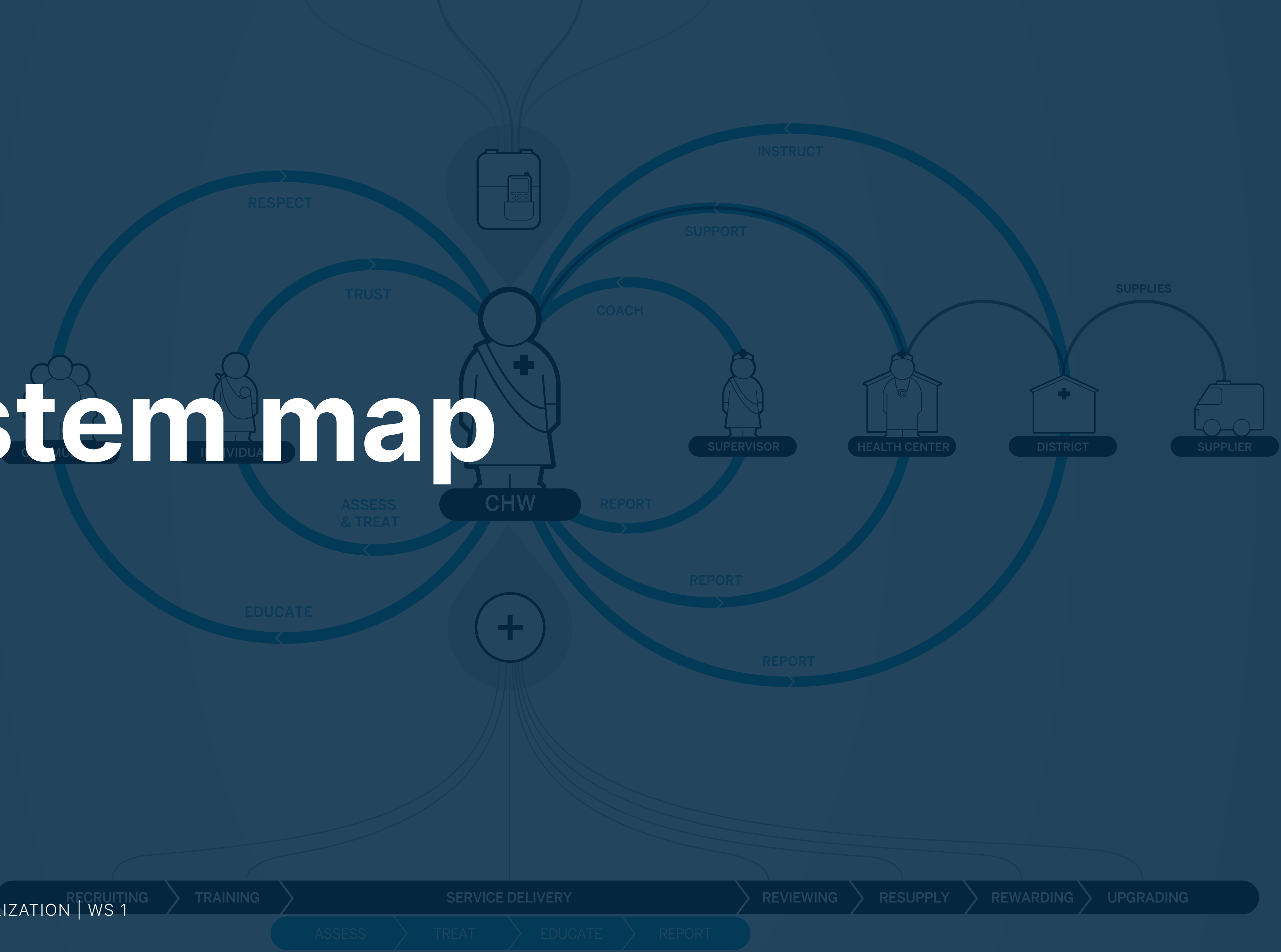
(Rittel and Webber: On the Wicked Problems, Dilemmas In a General Theory Of Planning)

Comprehensive assessment:

- **user needs**
- technical
- organisational
- regulational

feasibility

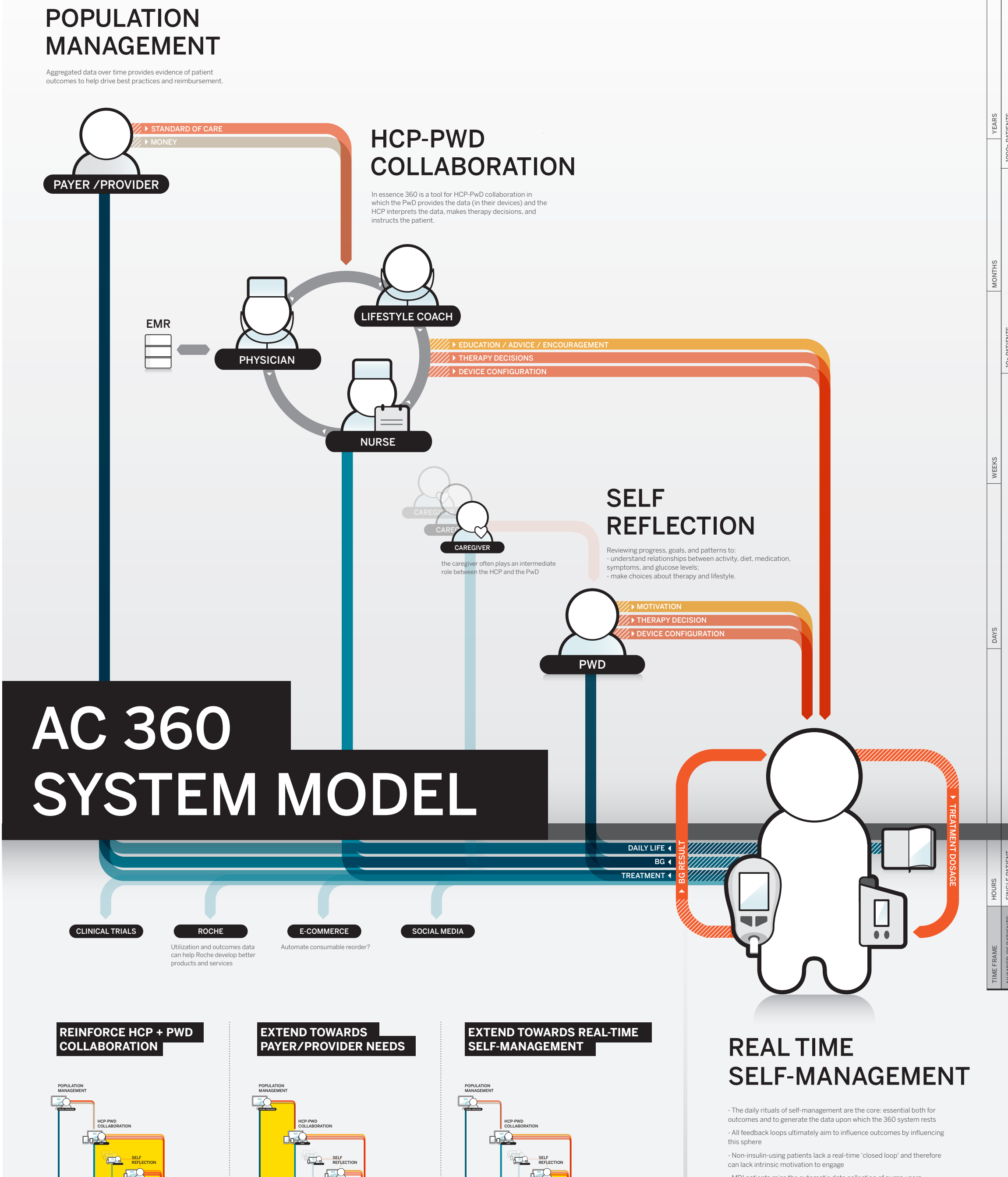
System map



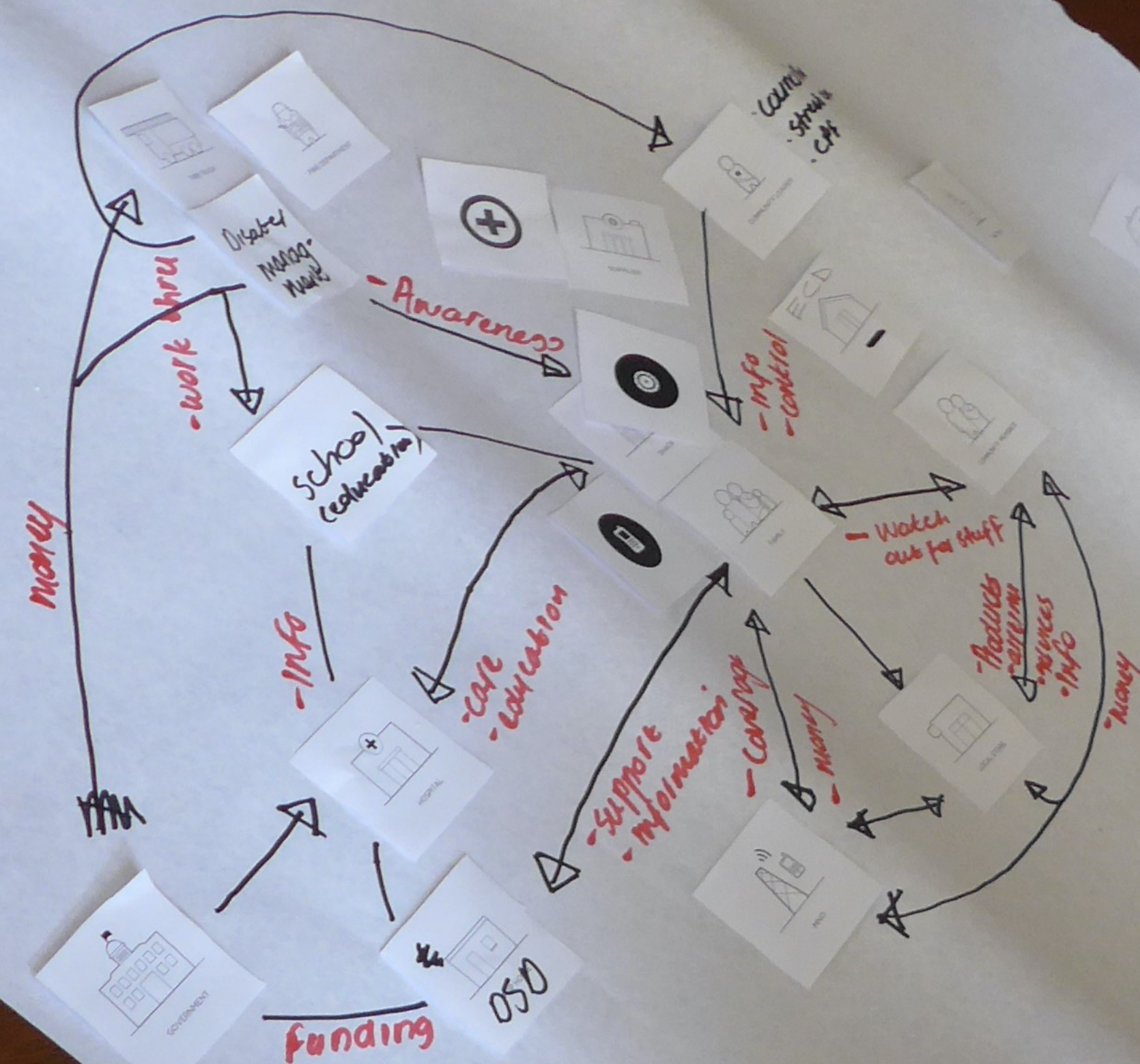
SYSTEM MAP

FROM THE FINAL USERS UP TO THE SERVICE PROVIDERS AND ENABLING TOOLS, THE SYSTEM MAP DESCRIBES THE ROLES INVOLVED IN THE EXPERIENCE DELIVERY AND HOW THEY EXCHANGE VALUE.

The system map is a static picture of a moment in time, in relation to which flows of information/money/physical objects are highlighted.

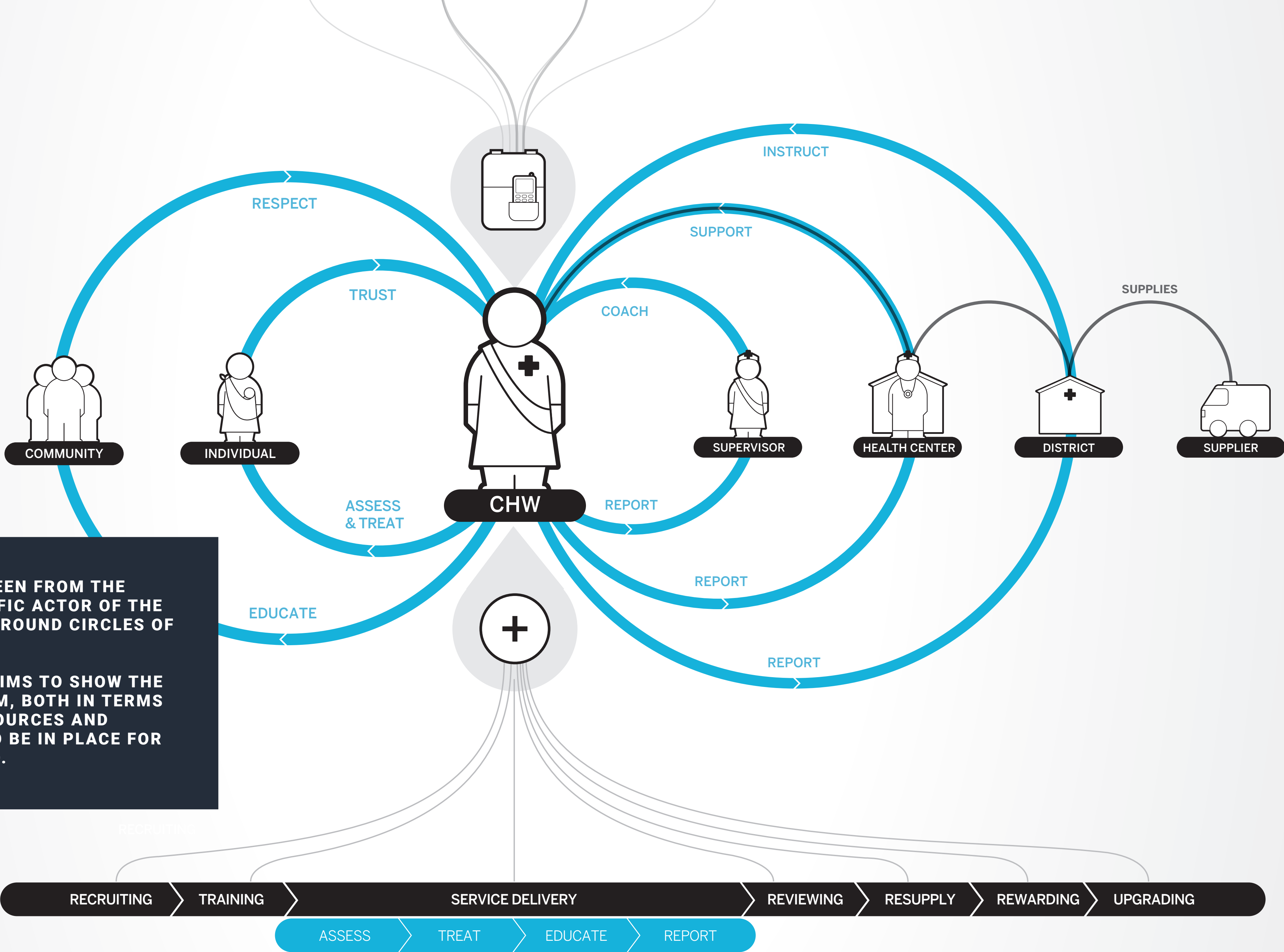


SYSTEM MAP



THE SYSTEM MAP CAN BE BUILT STARTING FROM RESEARCH ACTIVITIES DONE WITH PARTICIPANTS, SUCH AS THE 'CIRCLE OF CARE/TRUST'.

SYSTEM MAP



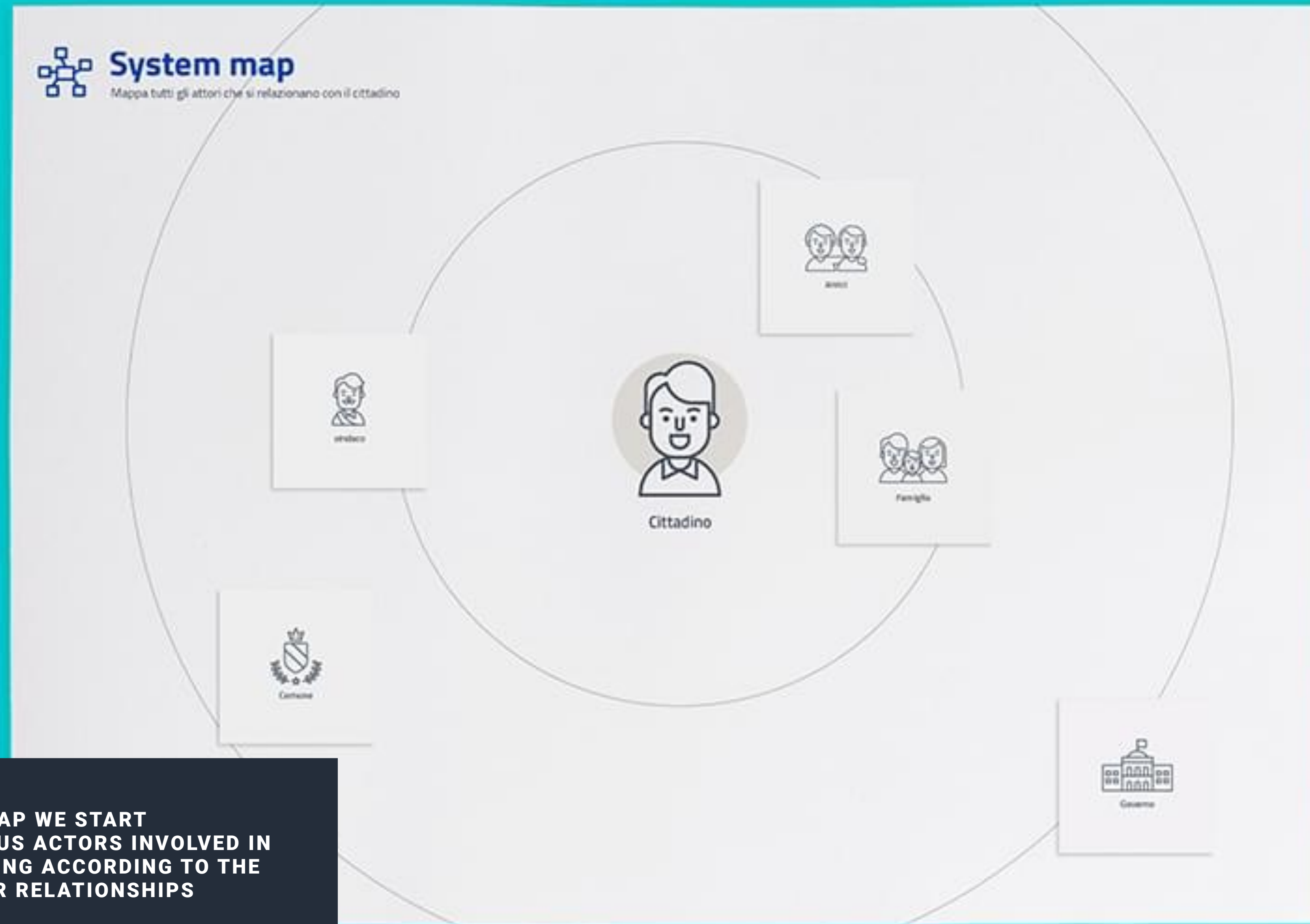
ECOSYSTEM MAPS ARE SEEN FROM THE PERSPECTIVE OF A SPECIFIC ACTOR OF THE SYSTEM AND ARE BUILT AROUND CIRCLES OF RELATIONS.

IN THIS CASE, THE MAP AIMS TO SHOW THE ENABLERS OF THE SYSTEM, BOTH IN TERMS OF PHYSICAL TOOLS/RESOURCES AND RELATIONS THAT NEED TO BE IN PLACE FOR THE SERVICE TO SUCCEED.



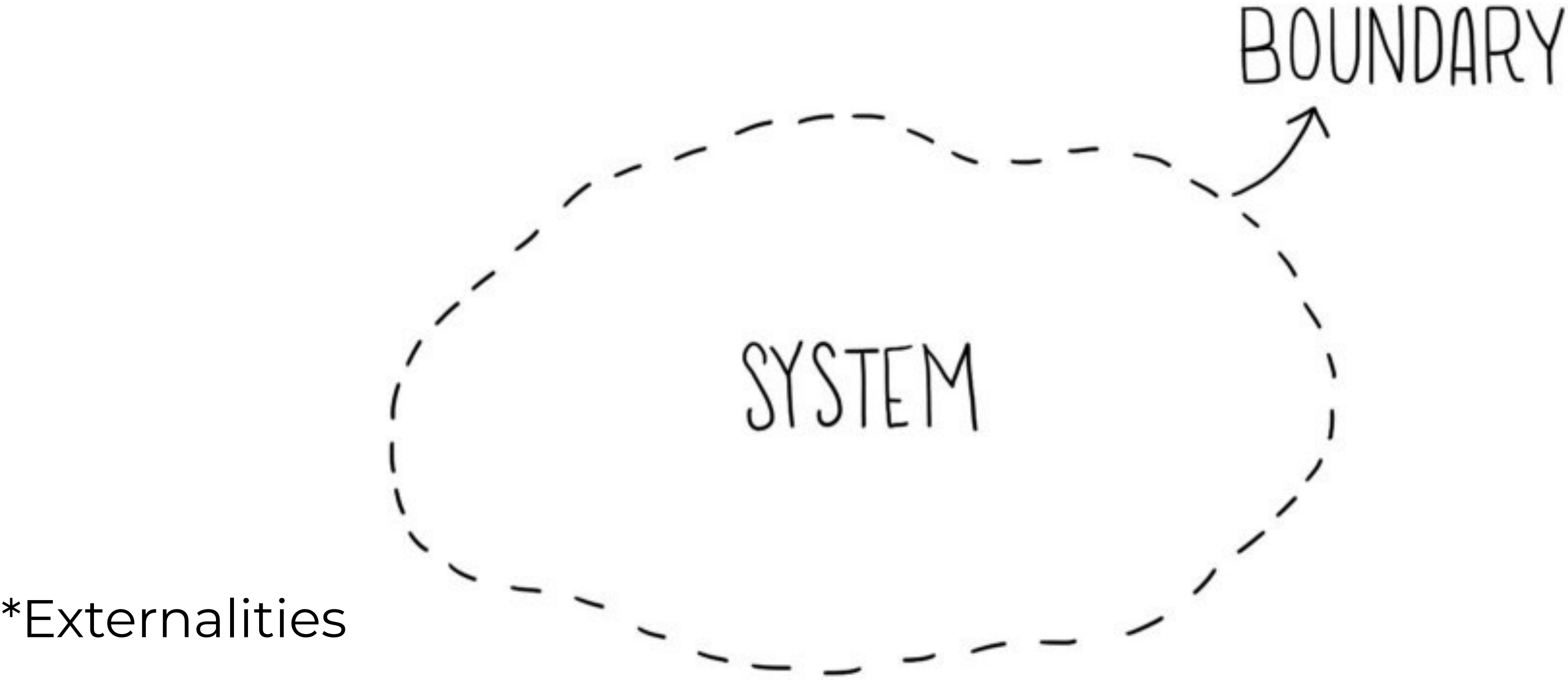
System map

Mappa tutti gli attori che si relazionano con il cittadino



**IN STAKEHOLDER MAP WE START
ORGANISING VARIOUS ACTORS INVOLVED IN
SERVICE FUNCTIONING ACCORDING TO THE
STRENGTH OF THEIR RELATIONSHIPS**

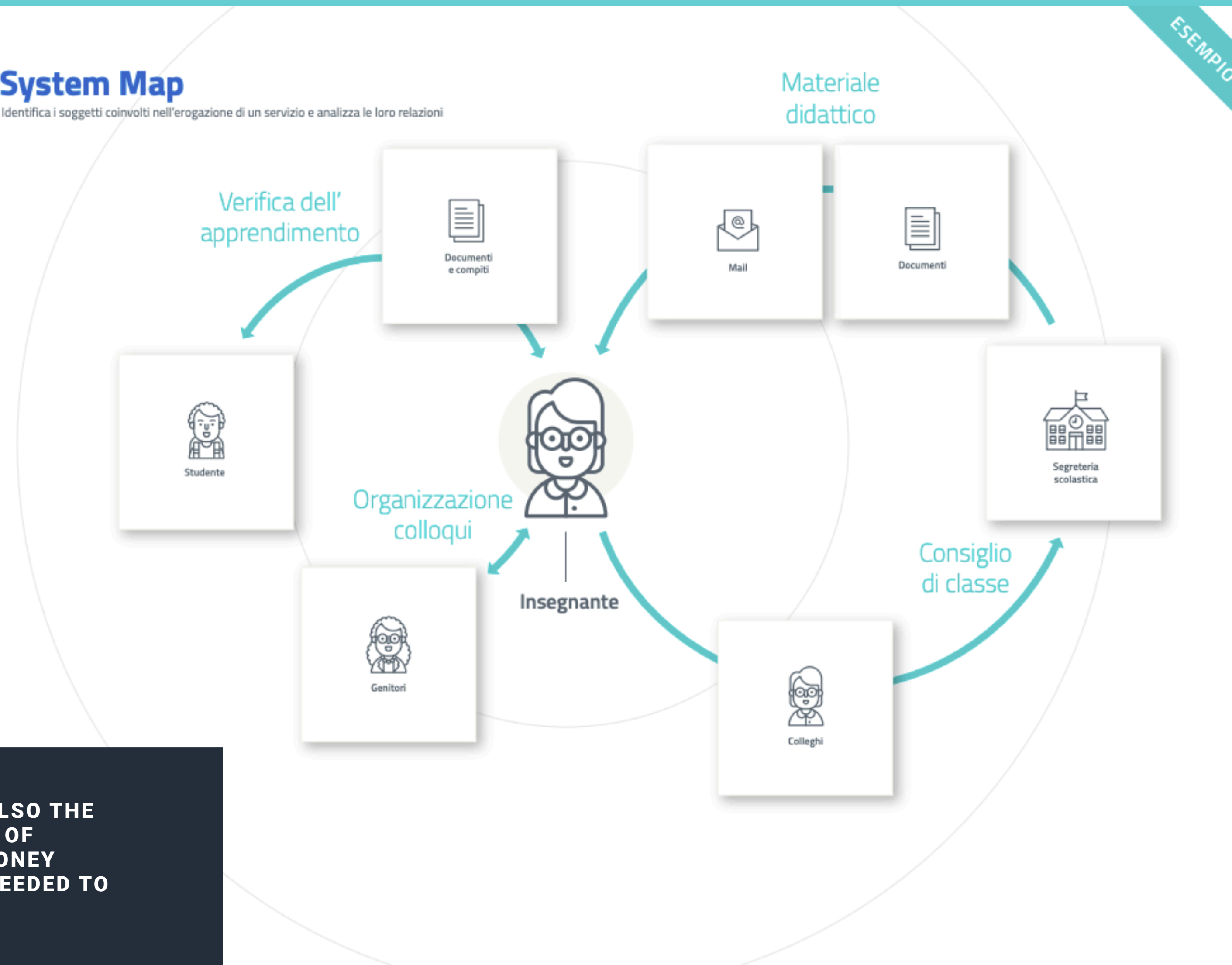
SYSTEM MAP





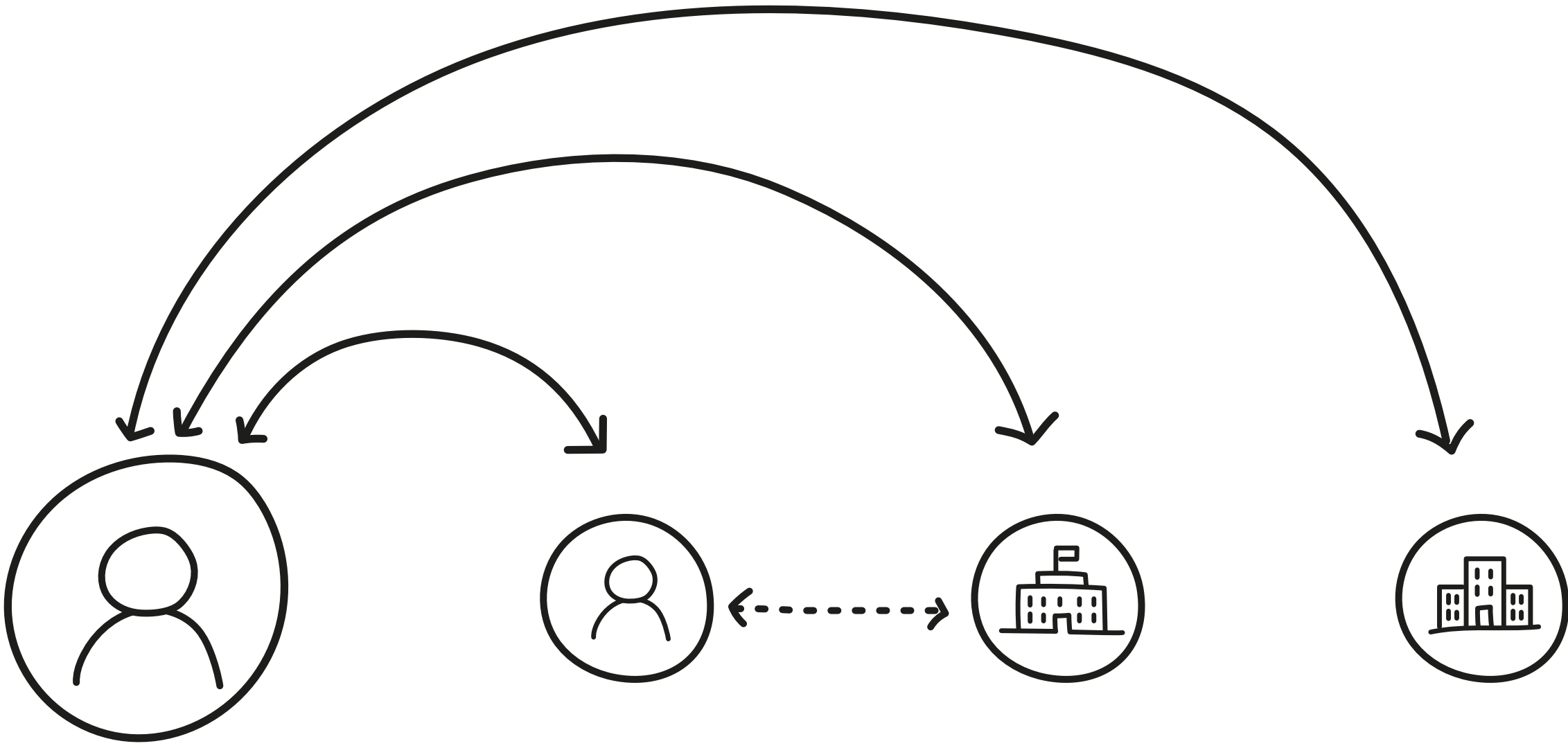
System Map

Identifica i soggetti coinvolti nell'erogazione di un servizio e analizza le loro relazioni



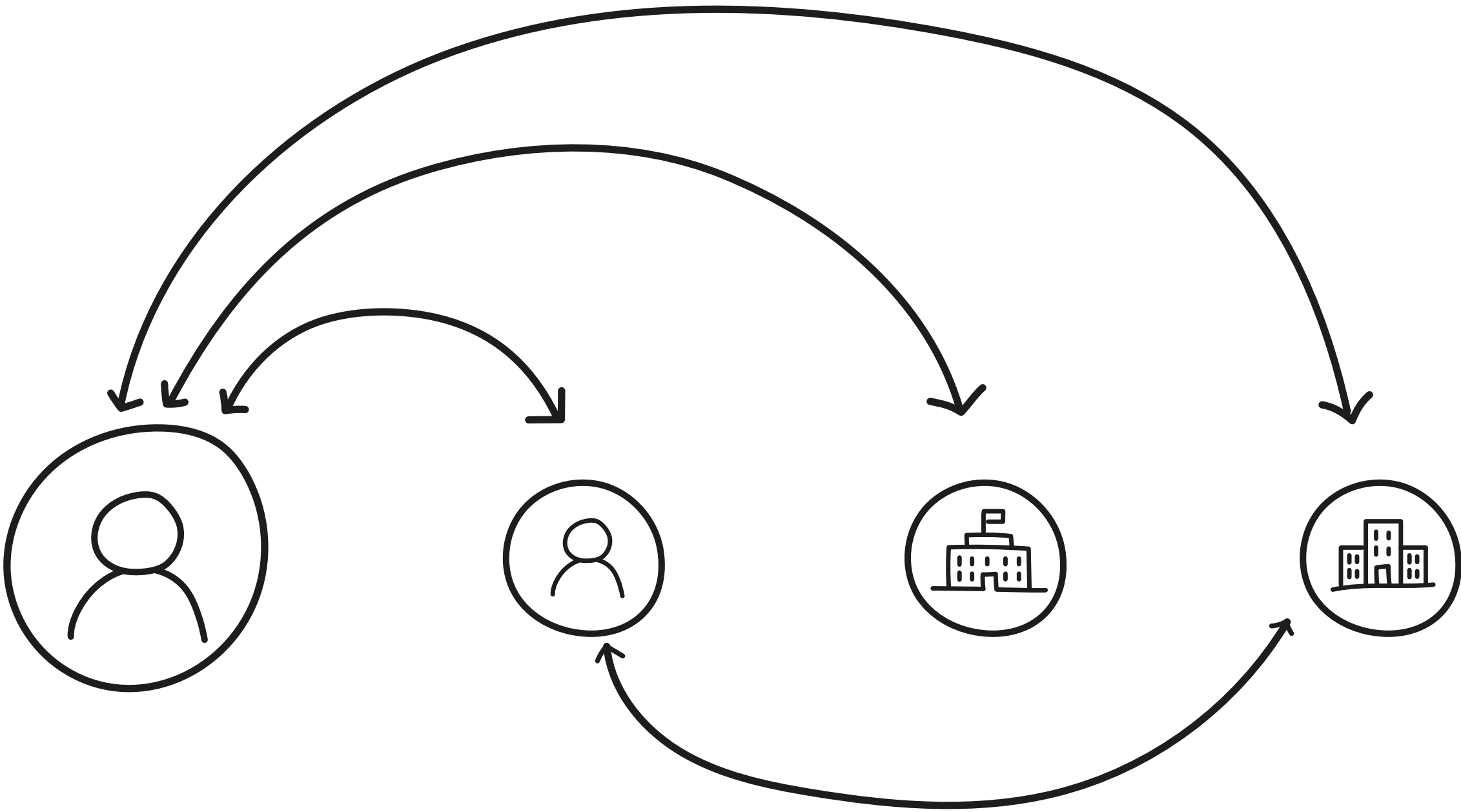
SYSTEM MAP TRACKS DOWN ALSO THE VARIOUS EXCHANGES - FLOWS OF RESOURCES, INFORMATION, MONEY BETWEEN THE MAIN ACTORS NEEDED TO PROVIDE THE SERVICE

**CHECK FOR THE GAPS
BETWEEN ELEMENTS**

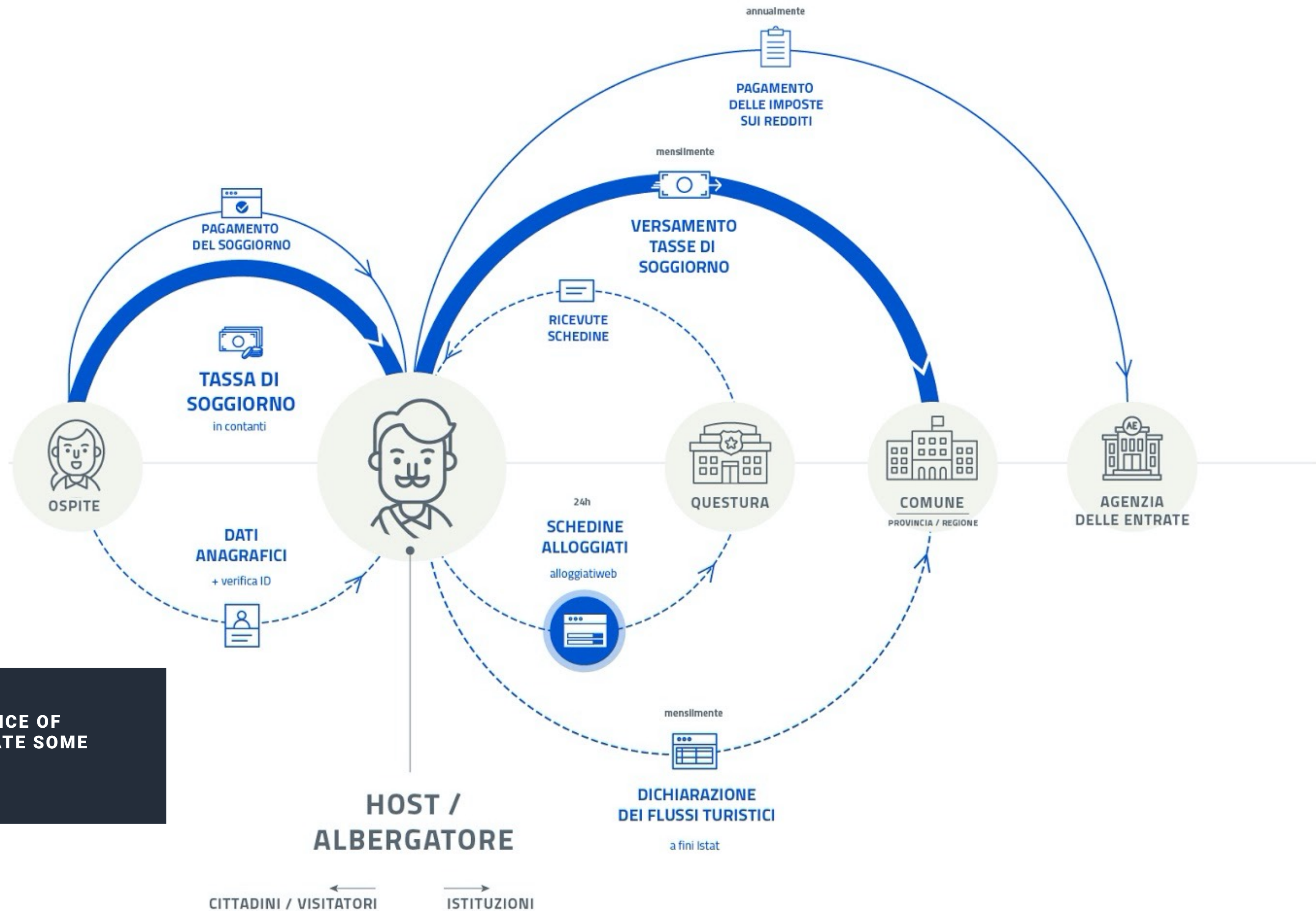


SYSTEM MAP

**OR SOME UNEXPECTED
CONNECTIONS**



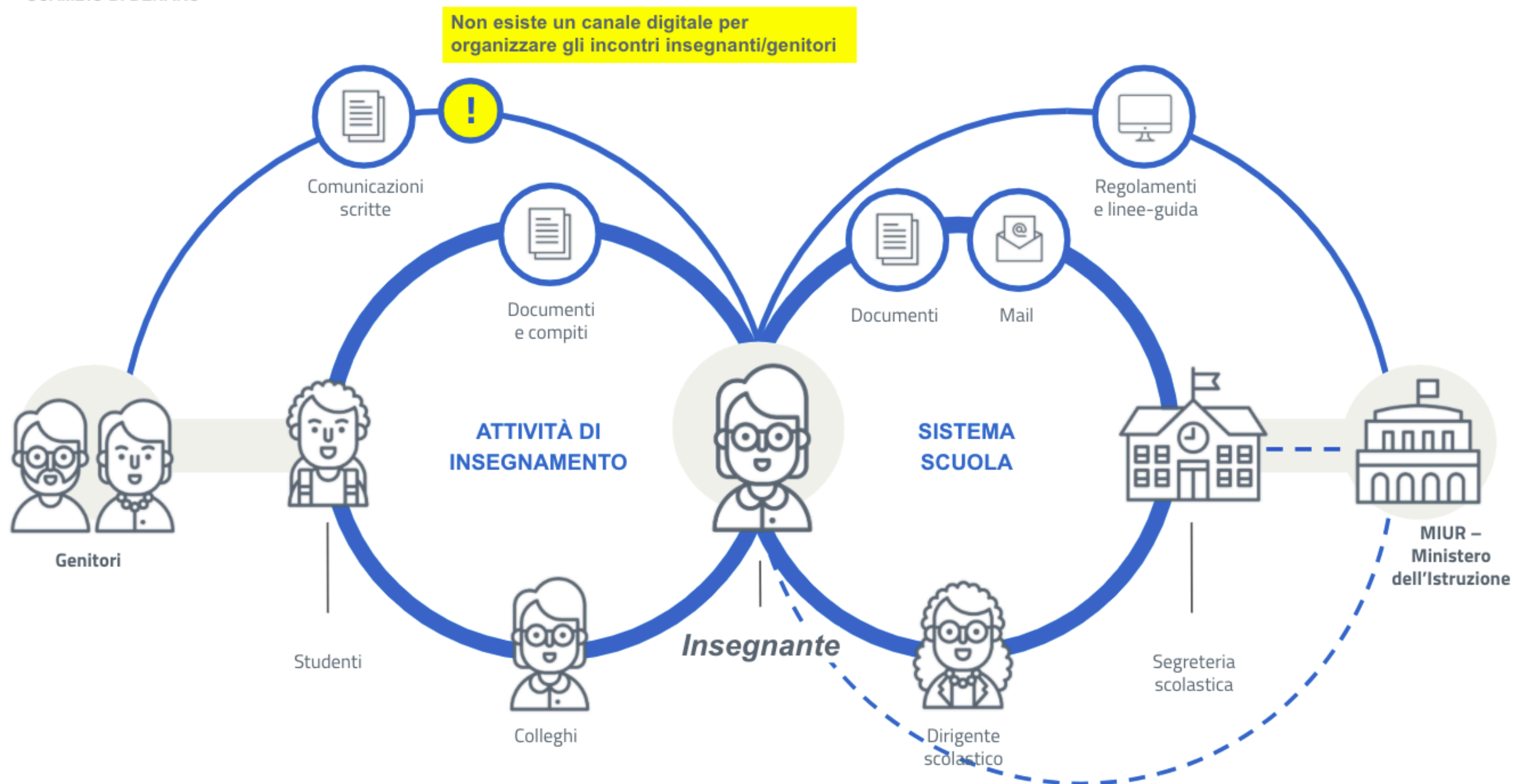
SYSTEM MAP

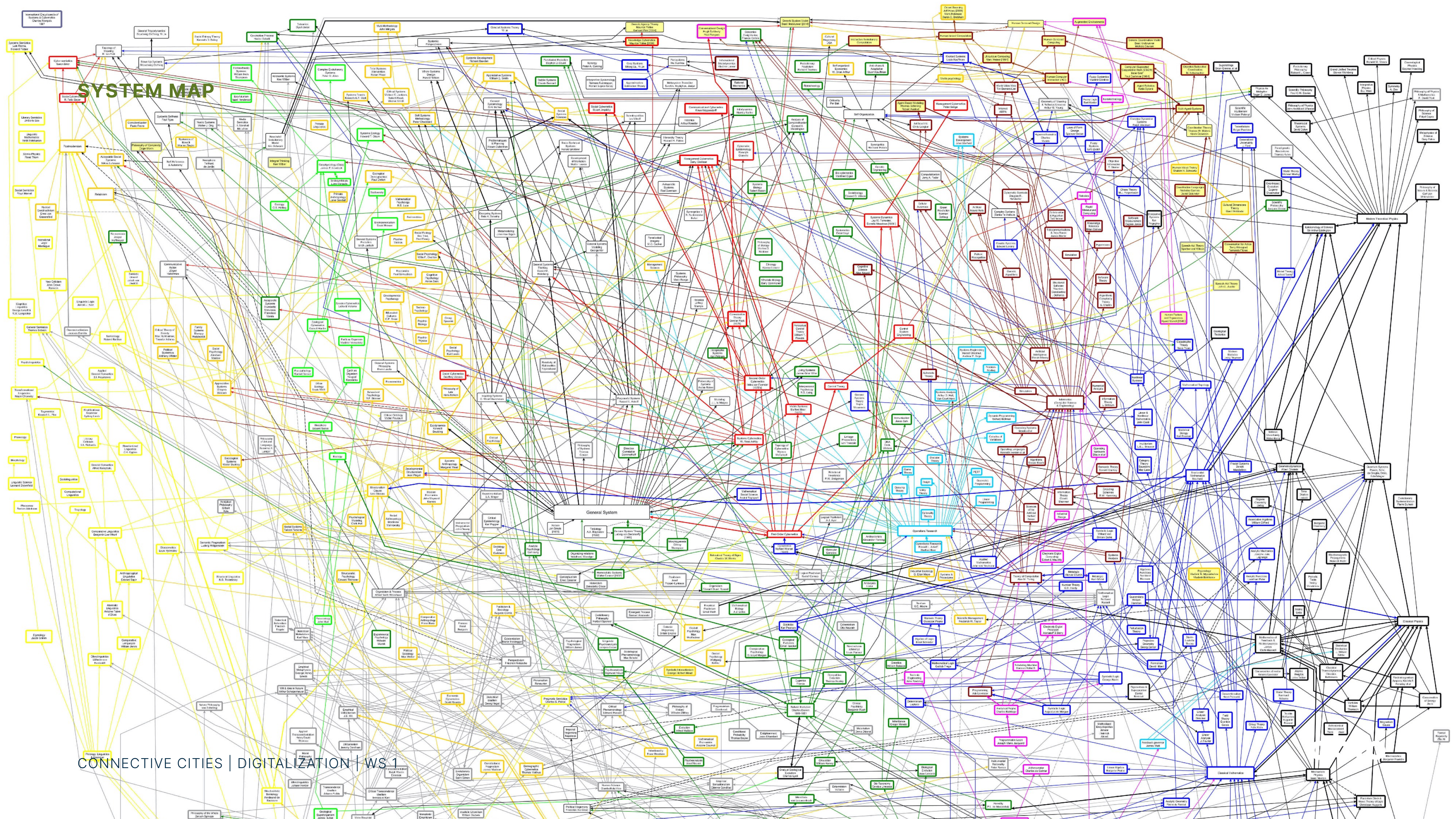


OVERALL BALANCE OR MISBALANCE OF CONNECTIONS WILL ALSO INDICATE SOME WEAK POINTS IN THE SYSTEM

Il sistema scolastico

— SCAMBIO DI INFORMAZIONI
- - - SCAMBIO DI DENARO

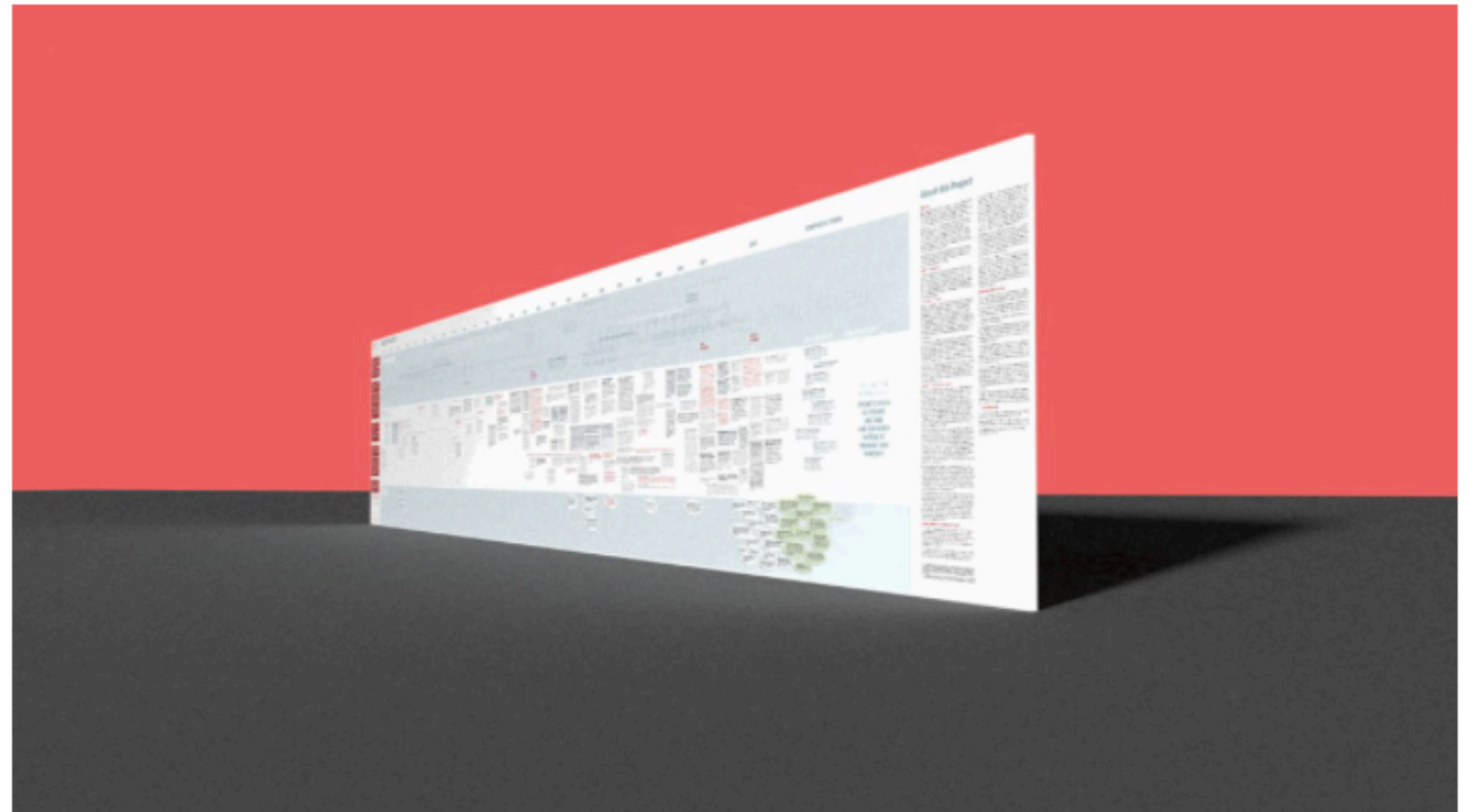




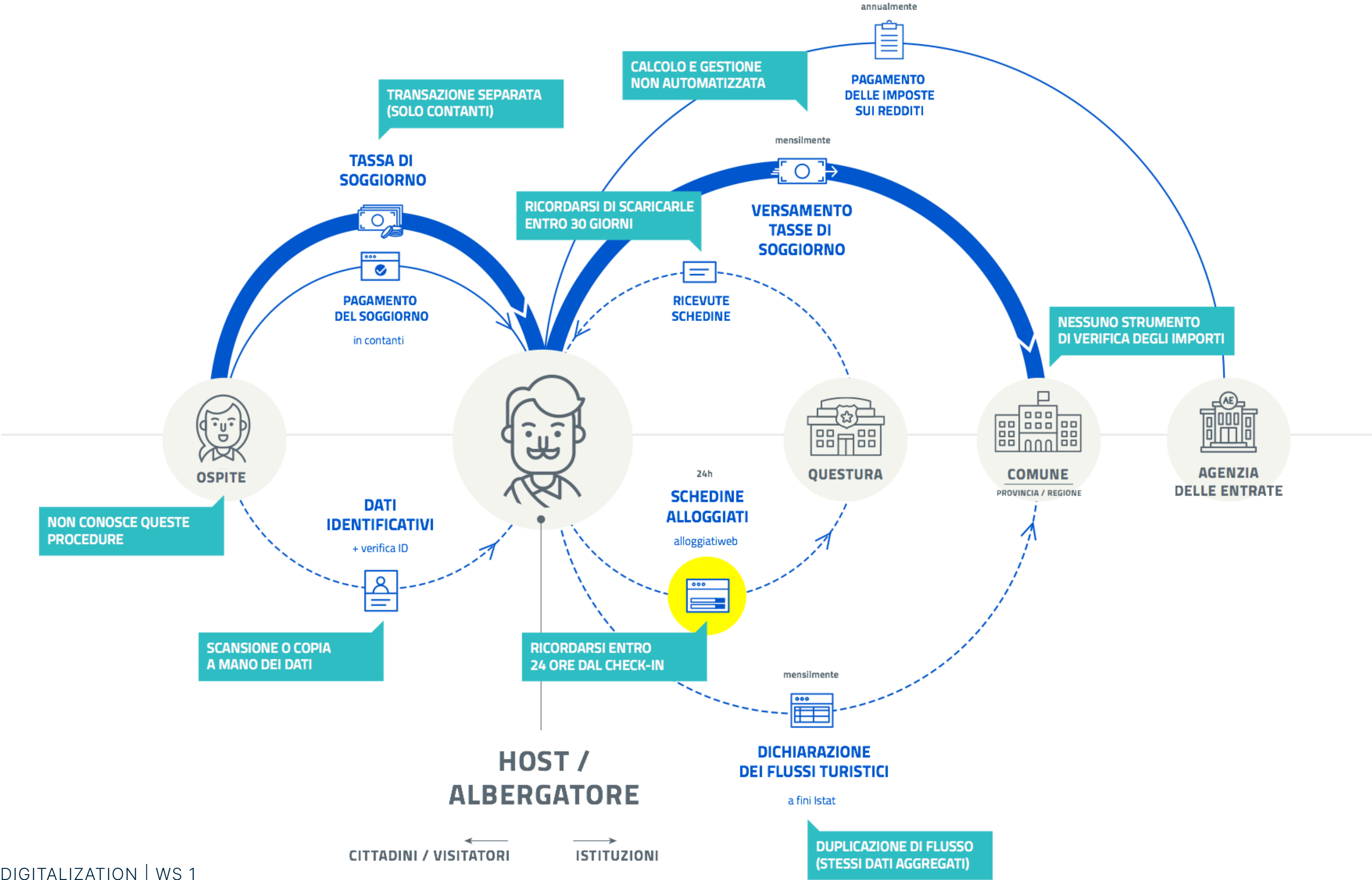
06-17-20 | 1:45 PM | CORONAVIRUS

This 22-foot long 'problem map' looks at the systemic failures that made COVID spread in the U.S.

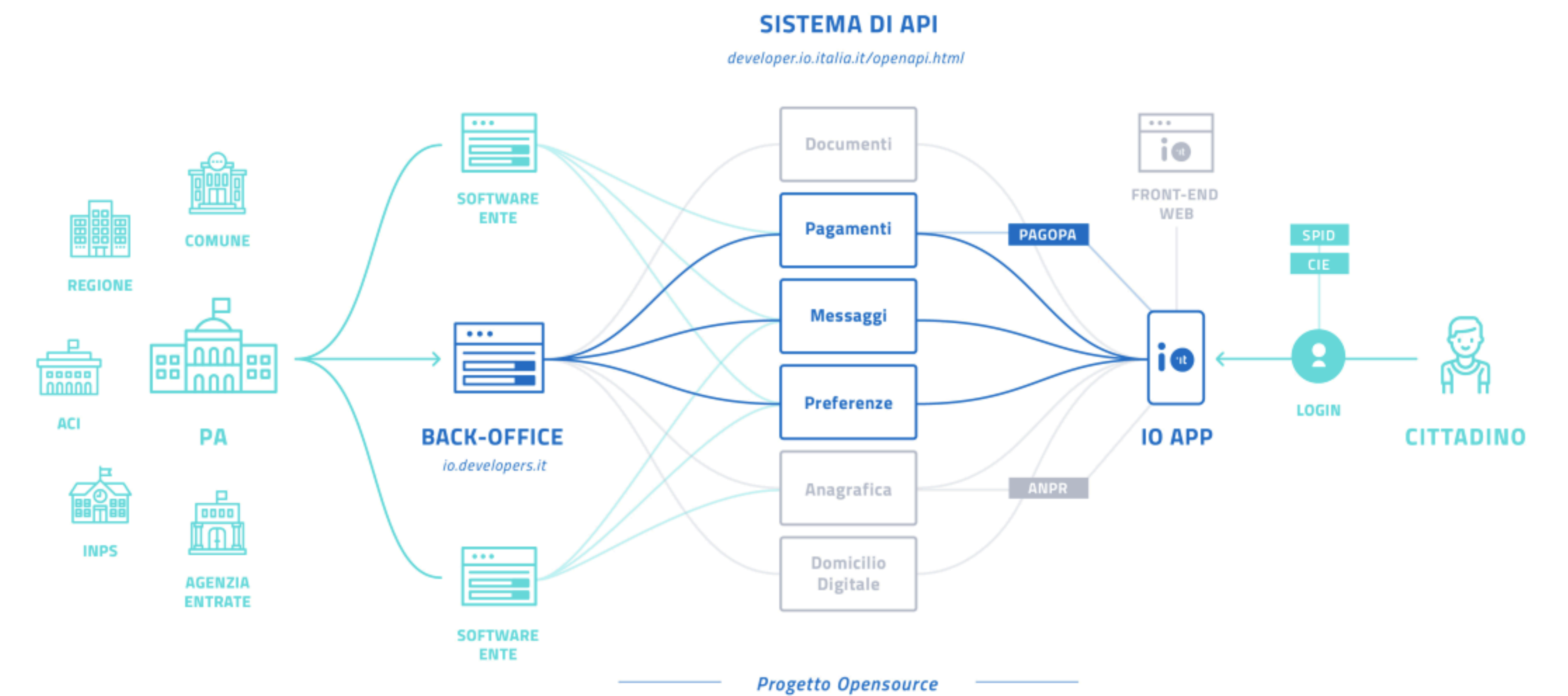
Can we use the pandemic to come up with broad solutions that fix more than just the virus?



SYSTEM MAP



SYSTEM MAP



**How to build
a *system* map?**

SYSTEM MAP

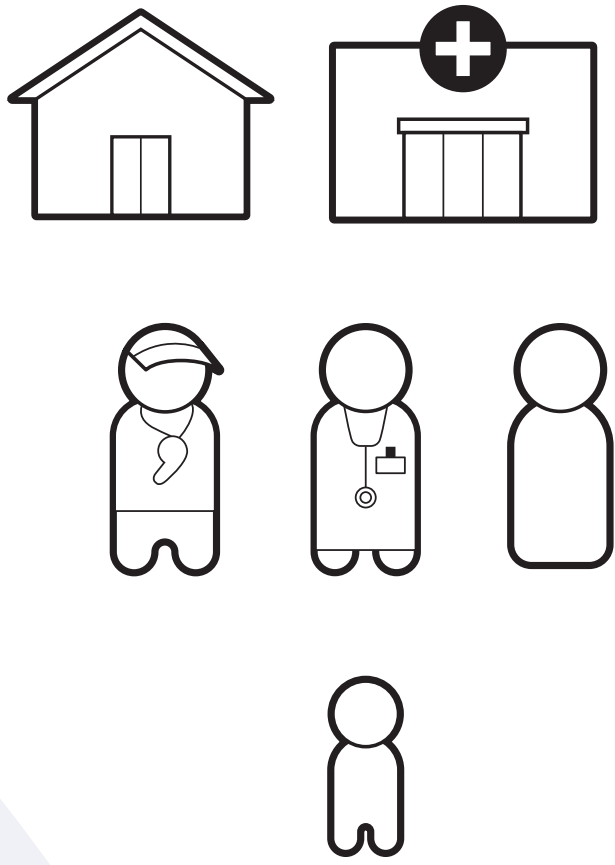
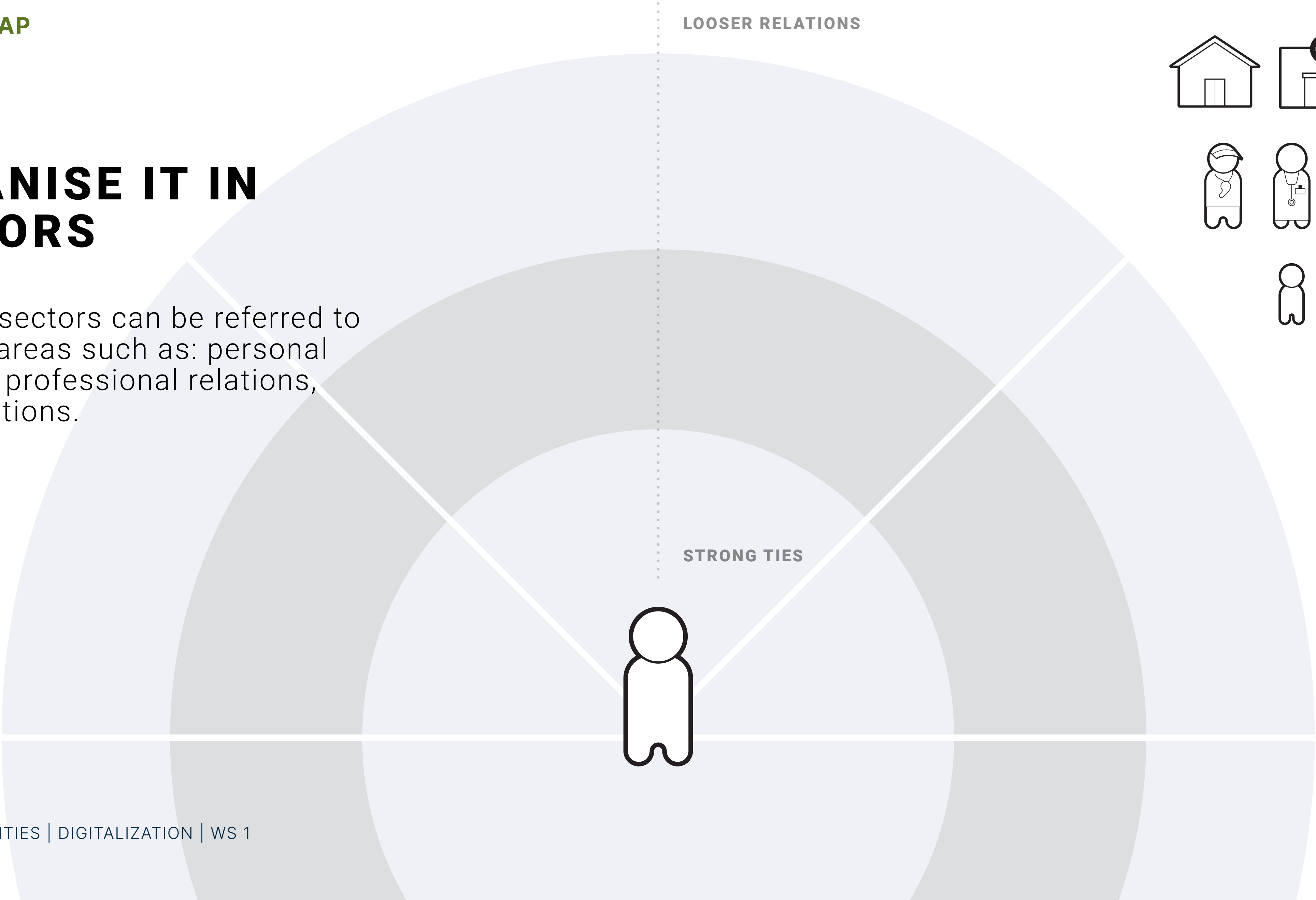
PUT THE USER AT
THE CENTER



SYSTEM MAP

ORGANISE IT IN SECTORS

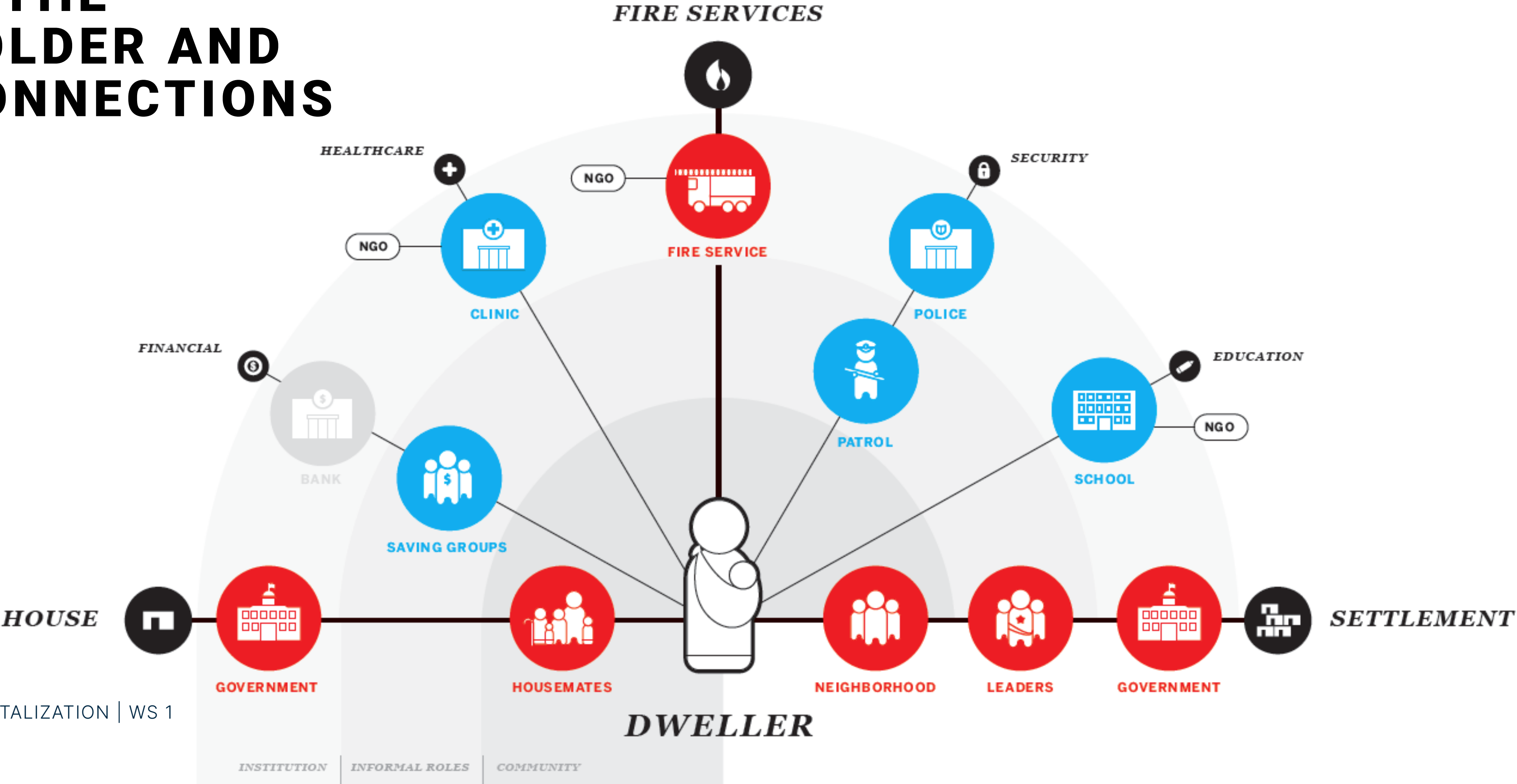
Different sectors can be referred to different areas such as: personal relations, professional relations, clinic relations.



SYSTEM MAP

ADD ALL THE
STAKEHOLDER AND
THEIR CONNECTIONS

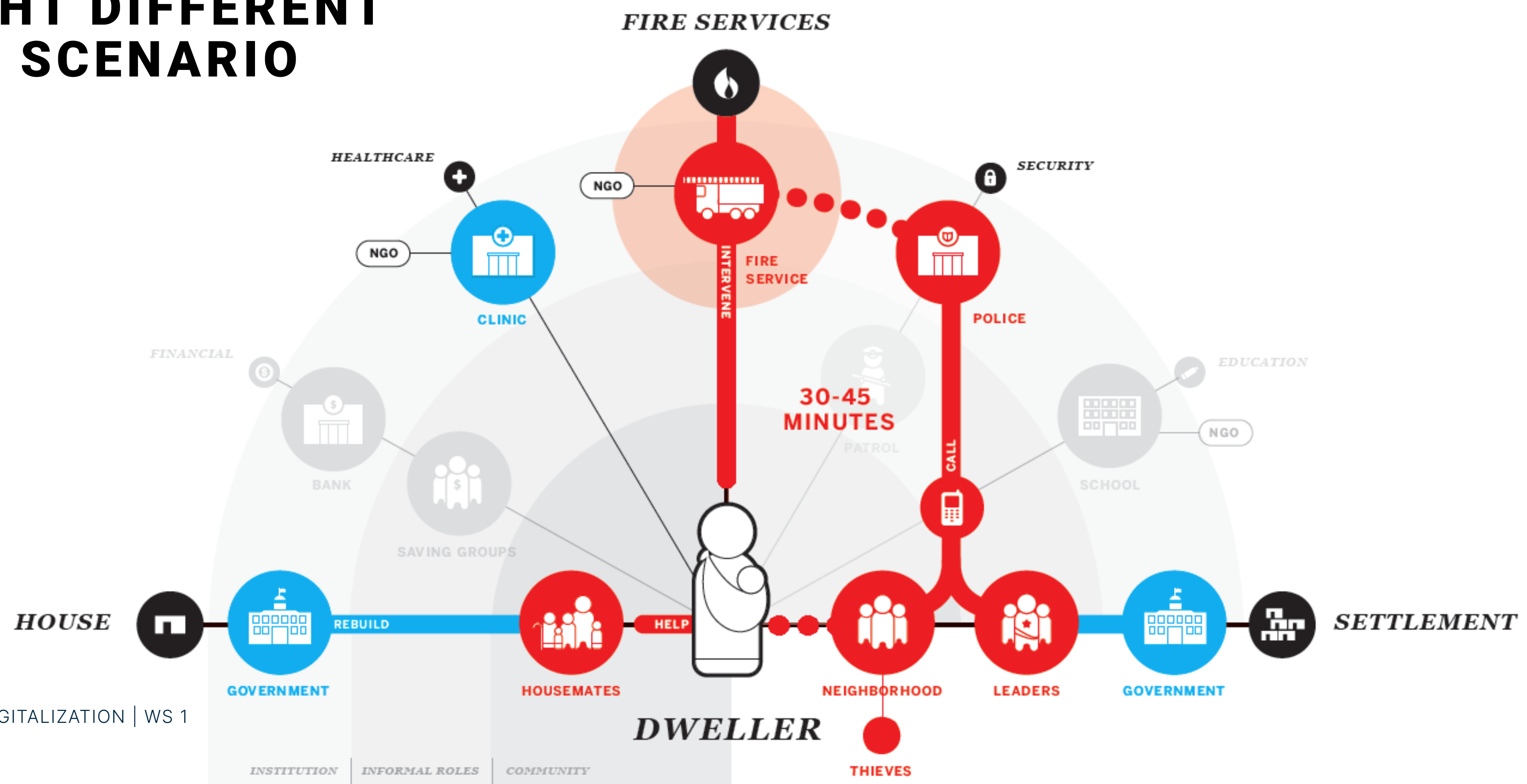
- DIRECTLY FIRE-RELATED
- INDIRECTLY FIRE-RELATED
- MINOR PRESENCE

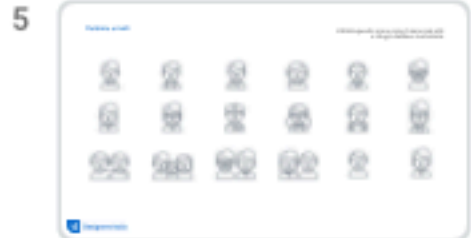


SYSTEM MAP

- DIRECTLY FIRE-RELATED
- INDIRECTLY FIRE-RELATED
- MINOR PRESENCE

HIGHLIGHT DIFFERENT SERVICE SCENARIO

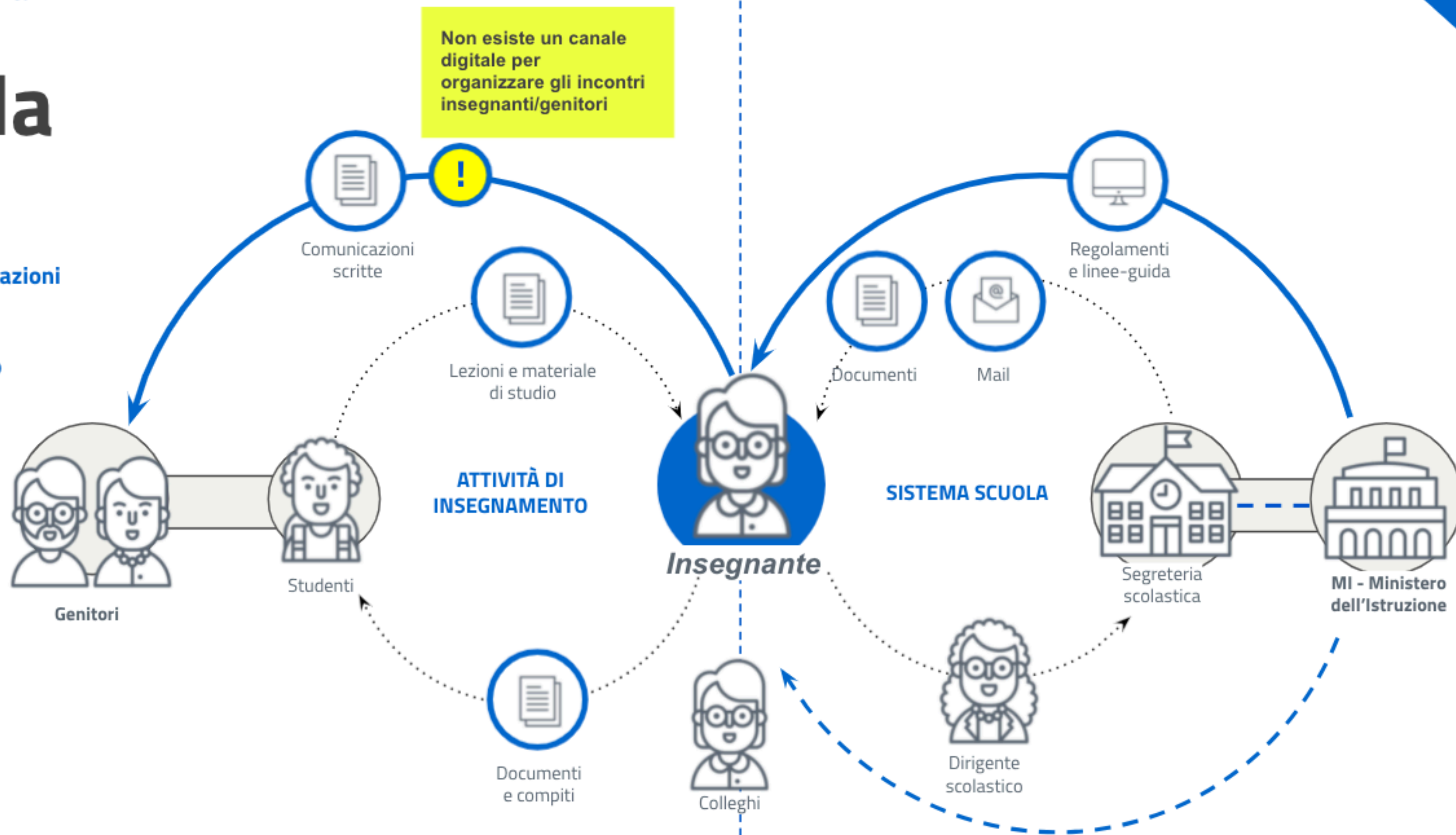
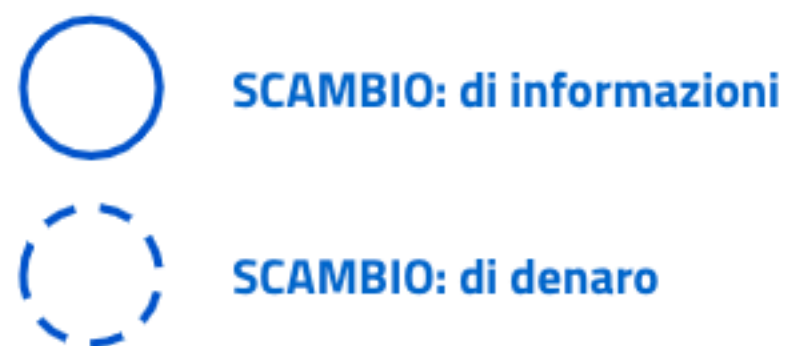




Mappa dell'ecosistema

La scuola

Educazione



SYSTEM MAP

System map helps to analyze context and locate your challenges within it and see how they are connected to other aspects of the system, or identify new challenges you haven't noticed before.

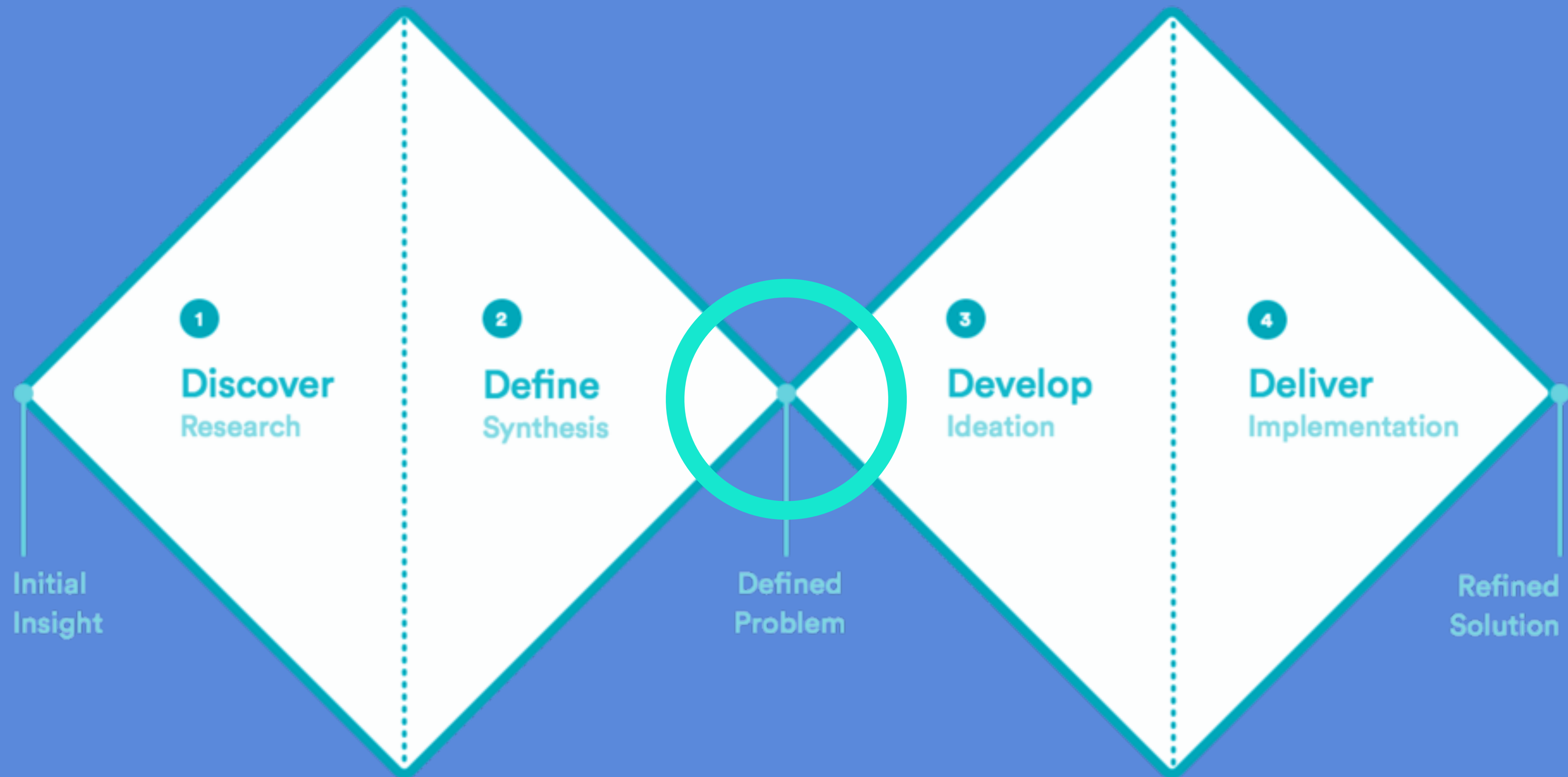


Any question?

Problem/challenge framing

Designing the Right Thing

Designing the Thing Right



PROBLEM FRAMING

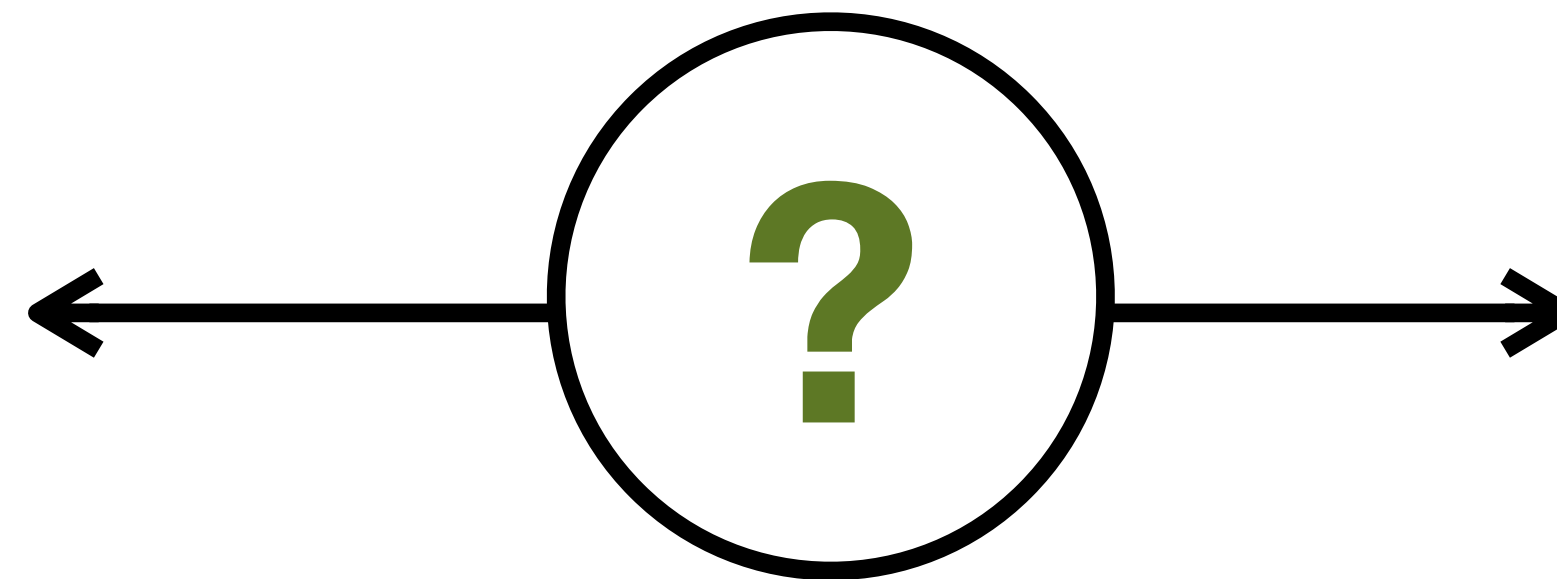
“If I had an hour to solve a problem and my life depended on the solution, I would spend the first 55 minutes determining the proper question to ask... for once I know the proper question, I could solve the problem in less than five minutes.”

(Probably A.Einstein)

PROBLEM FRAMING

**We need to restyle
the website
interface**

*Doesn't solve the
real problem*



*Solves (some part) of
the problem
and is feasible*

**We need to
redesign overall
system**

*Very difficult
to achieve*

PROBLEM FRAMING

Restyle the website interface

Doesn't solve the real problem

Improve the property registration journey

Solves (some part) of the problem and is feasible

Redesign the overall system

Very difficult to achieve

PROBLEM FRAMING

Develop an automated tool to deal with sensitive data

Doesn't solve the real problem

Provide guidance to NGOs dealing with sensitive data

Solves (some part) of the problem and is feasible

Become a central node for all sensitive data storage

Very difficult to achieve

PROBLEM FRAMING

Too Broad	Just Right	Too Narrow
How might we end hunger?	<i>How might we connect institutional food surpluses to those in need?</i>	How might we design an app to help food pantries get more donations?
Hunger is a huge multifaceted problem and this statement doesn't target a specific area of intervention.	<i>This statement provides enough specificity while remaining open to a variety of possible solutions.</i>	This statement presupposes too many details about the solution (an app) and doesn't leave enough room for innovation.
How can we make cycling safer?	<i>How might we make urban cyclists more visible to drivers at night?</i>	How can we make better lights for cyclists?
What aspects of cycling? This is too broad.	<i>This statement provides enough specificity (urban, night time visibility) while remaining open to a variety of possible solutions.</i>	How do we know lights are the best solution? This statement doesn't leave enough room for creative problem solving.



FIND
YOUR
TOOL

HOME > TOOLS > TOOLS > CLARIFY MY PRIORITIES > PROBLEM DEFINITION

I want to clarify my priorities
by focusing on key critical issues.

PROBLEM DEFINITION

<https://diytoolkit.org/tools/problem-definition-2/>
[https://www.open.edu/openlearncreate/course/
view.php?id=2213](https://www.open.edu/openlearncreate/course/view.php?id=2213)

GO TO DIY LEARN MODULE

DOWNLOAD

DIY 08

I want to clarify my priorities
by focusing on key critical issues

PROBLEM DEFINITION

What is the key
issue you are
trying to address
and why is it
important?

Who is it a problem
for?

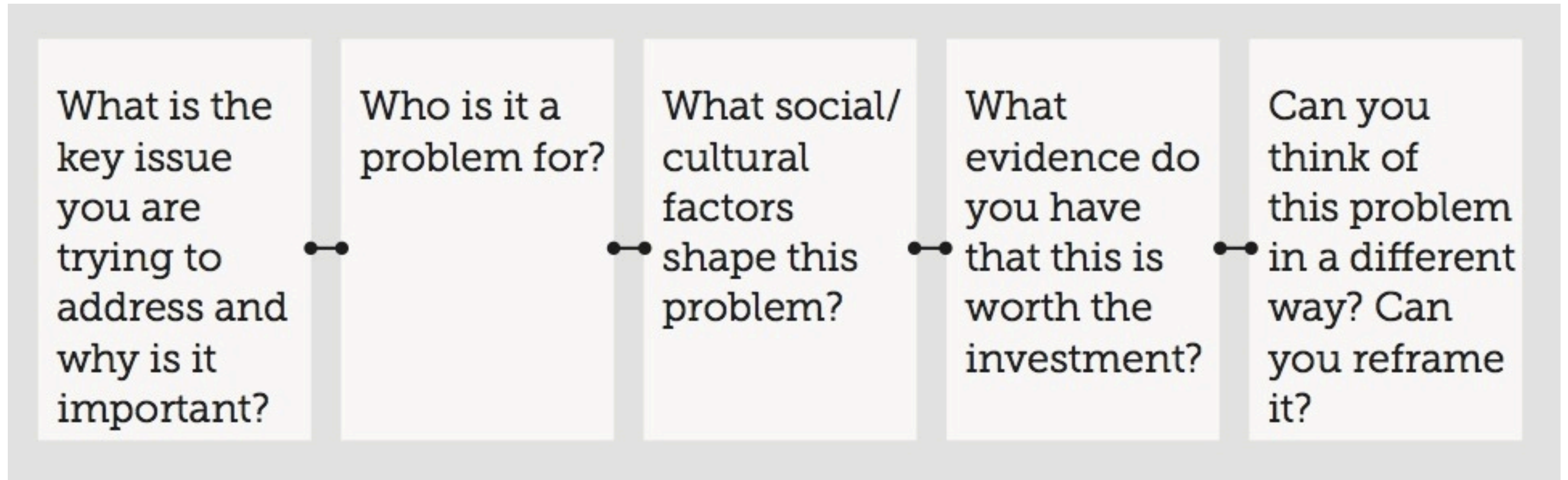
What social or
cultural factors
shape this
problem?

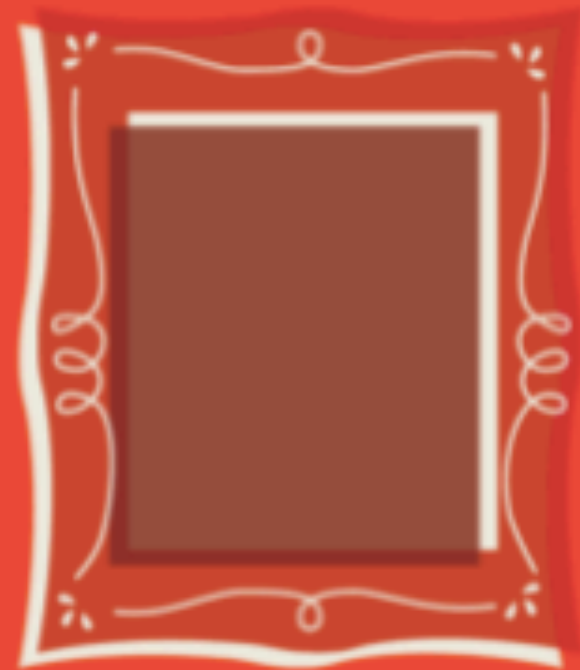
What evidence
do you have
that this is worth
the investment?

Can you think of
this problem in a
different way?

Can you reframe it?

DIY Kit Problem definition





<https://www.designkit.org/methods/frame-your-design-challenge>

Frame Your Design Challenge

Properly framing your design challenge is critical to your success. Here's how to do it just right.

STATS

Suggested Time

1-2 days

Level of Difficulty

Moderate

A design challenge articulates the problem you are trying to solve, and helps you define a scope that is neither too narrow nor too broad. The **Frame Your Design Challenge worksheet** will guide you through a series of steps to get the right frame on your challenge and get started on the right foot. As you do this you'll ask yourself: Does my challenge drive toward ultimate impact, take into account context and constraints, and allow for a variety of potential solutions? You'll dial those in, and then refine your challenge until it's one you're excited to tackle.

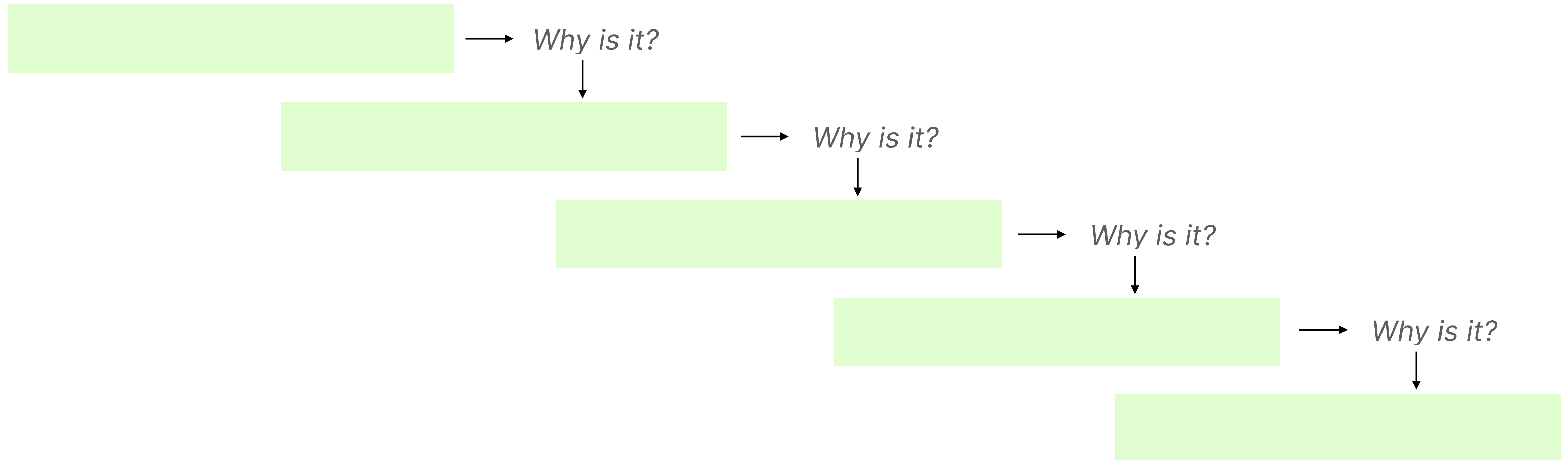
IDEO Challenge Framing

1. Describe a problem you want to solve
2. Rewrite it in a form of a short question
3. Define the goal or desired outcome / impact
4. Think of the context, audience, constraints
5. Review the initial question (step 2) and rewrite it

Root cause identification (5 whys)

Define the problem

Why is it happening?



Root cause identification (5 whys)

Hosts don't register guests properly

Why is it happening?

They cannot use the portal
when guests arrive

→ *Why is it?*



They don't have a suitable
device with them

→ *Why is it?*



Portal cannot be used from
mobile

→ *Why is it?*



It has a specific security
protocol

→ *Why is it?*



The personal information
should be better protected

Root cause identification (5 whys)

One of the route causes

The personal
information should
be better protected



Possible design challenge

How might we protect
personal information while
ensuring the usability?

NB

There is no one single perfect challenge for a project or some problem, but multitude of them that can be framed from different perspective.

The goal is to find the most useful among them.

Root cause identification (5 whys)

Hosts don't register guests properly

Why is it happening?

They cannot register
on the portal

→ *Why is it?*



They do not want to register
their property

→ *Why is it?*



They think it is
too difficult to do

→ *Why is it?*



They don't find the proper
information about it

→ *Why is it?*



The process is fragmented
between cities

PROBLEM FRAMING

One of the route causes

The process is
fragmented
between cities



Possible design challenge

How might we create a
more unified property
registration journey ?

Challenge definition checklist

- It was analysed to be (one of) a core problem(s)
- It is within the boundary of your control (feasible)
- It is not too broad or narrow
- It has a large impact
- It cannot be further reframed to become clearer



Any question?



Thank you very much for your attention!
Get connected on www.connective-cities.net

See you in 10 minutes!

Partner von Connective Cities



Im Auftrag des

