



GroeiFabriek

Innovation Lab

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Innovation @ APG in three horizons

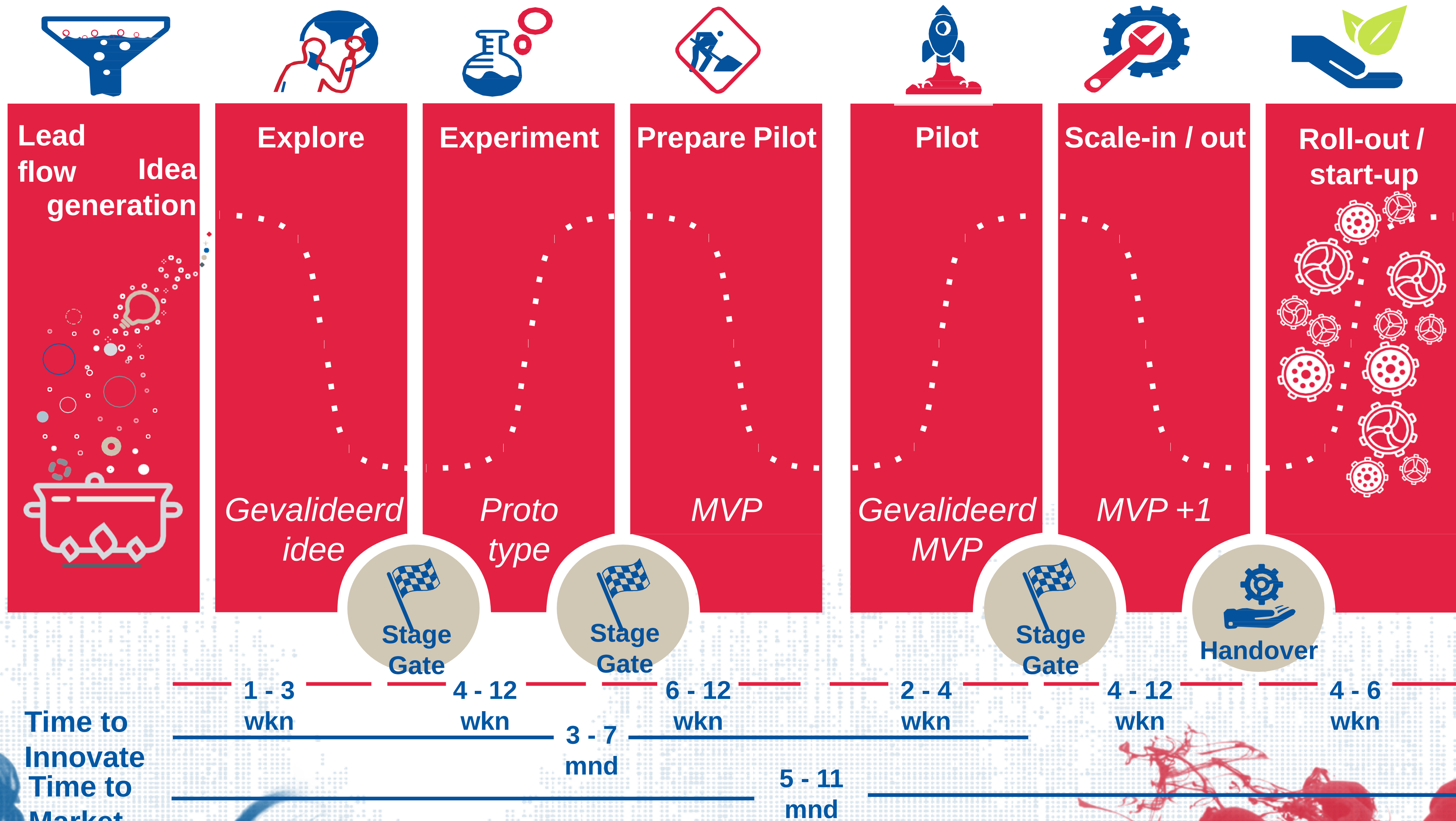
Innovation horizons (McKinsey)



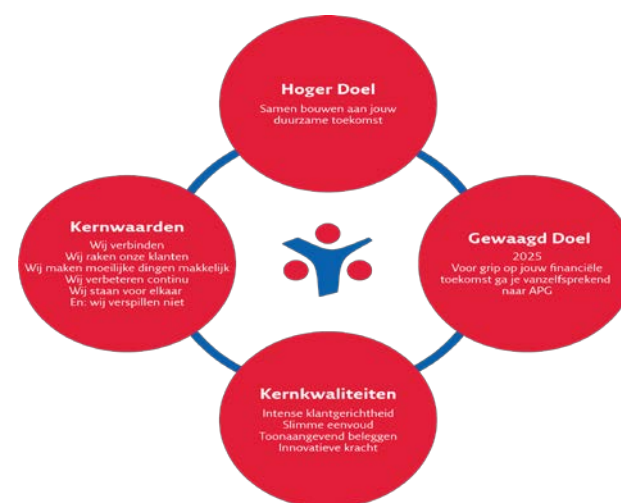
Approach

- Growth or cost savings
- 1 Yr. Implementation / maturity horizon
- New technologies, business models, experimental focus
- 1-3 Yr. implementation horizon
- Open ended, research driven
- 5-10 Yr. focus

Innovation Process



APG's mission and ambition



Maximising pension value

Under the precondition of long-term business economic health

Leading pension performer

Strong funds

Trusted guide

Providing most income years for participants in a sustainable way

1 Lowest administration cost

2 Highest net return on investment

3 Help our fund clients to strengthen relevance by strengthening ties with participant and employer

4 Helping participants to make conscious choices regarding income for later and offer appropriate solutions

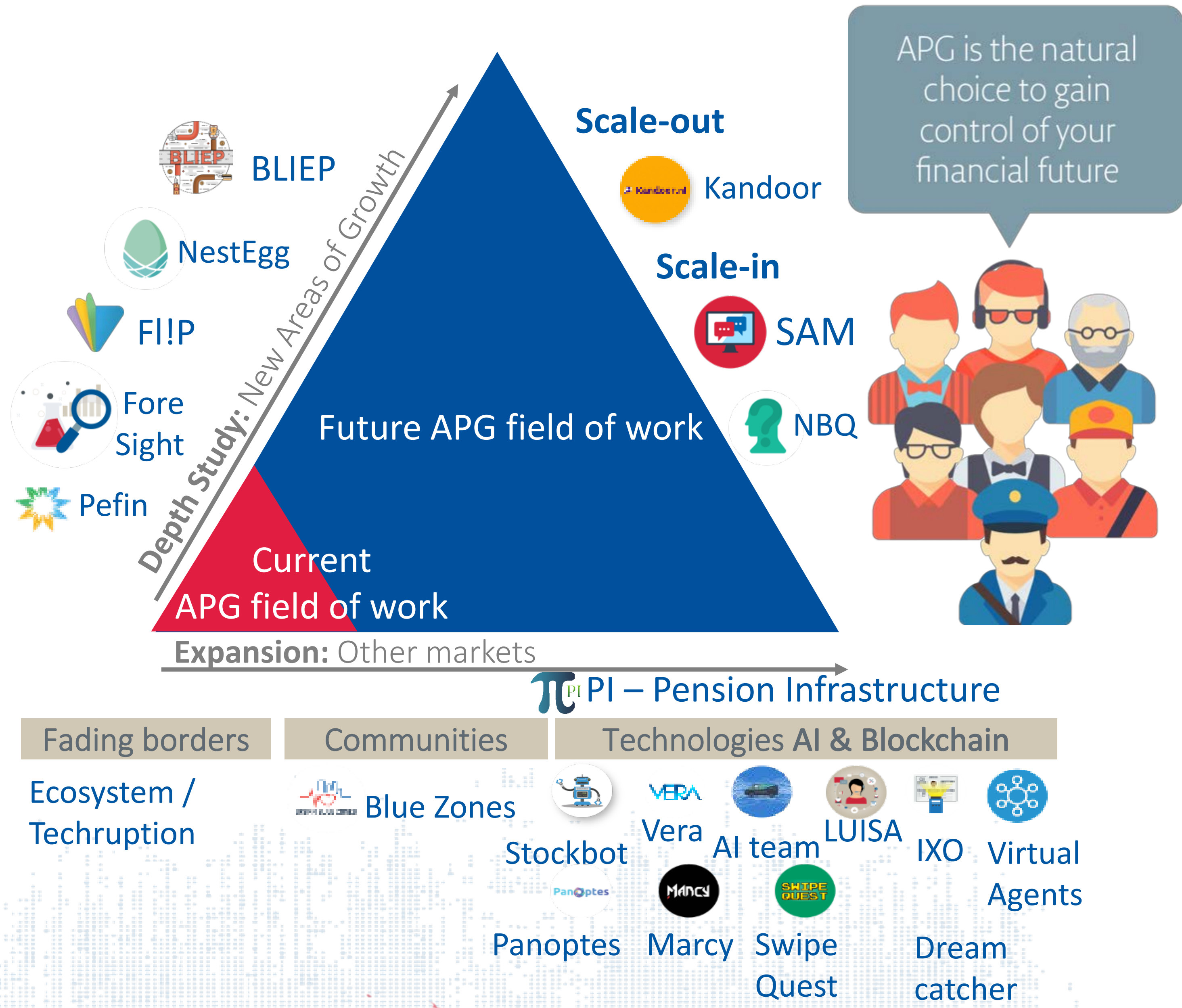
5 Robust and agile HR and ICT foundation and efficient staffs

Drivers for innovation

Themes/Trends

APG's challenges

Expansion	Longevity	Costs drastically reduced and next to this enter into new relationships with the target group "people that stopped working"
	Changes in the labor market	Our existing relationships & processes are changing
Depth Study	Change in work ethic & lifecycle	APG's current products and services are not able to support the future work and life cycle
	Regulated solidarity towards individually selected parts	More transparency in the consumers financial and health status. They want to decide with whom they share risks
	The consumer decides	In the future consumers will choose based on their own interests (eg costs, Corporate Social Responsibility, ease of use, etc.)
	AM specific	Long-term investments and new forms of investment
Enablers	Fading borders between sectors	Cross-over between the pension industry and other sectors is minimal. We need to look for new forms of cooperation.
	Communities (majority trough platformization)	Pension executives do not organize themselves in communities through platforms and therefore lack customer
	Technologies	Knowledge in current pension execution is immature in the field of emerging, potentially disruptive technologies



PENSION INFRASTRUCTURE



Blockchain Strategy

Dutch Market figures



5.5 million active participants
9.6 million sleepers
3.2 million pensioners



1 billion euro annual
pension administration
cost



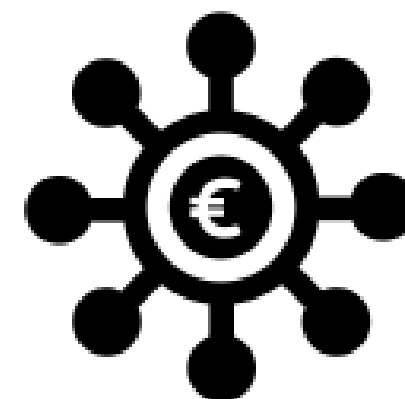
Estimated annual
blockchain impact 300
million euro



App. 265 pensioen funds manage
1700 biljon euro pension assets



App. 20 pensioen service providers



Blockchain investments not yet clear
Current systems between 80 – 200 mln

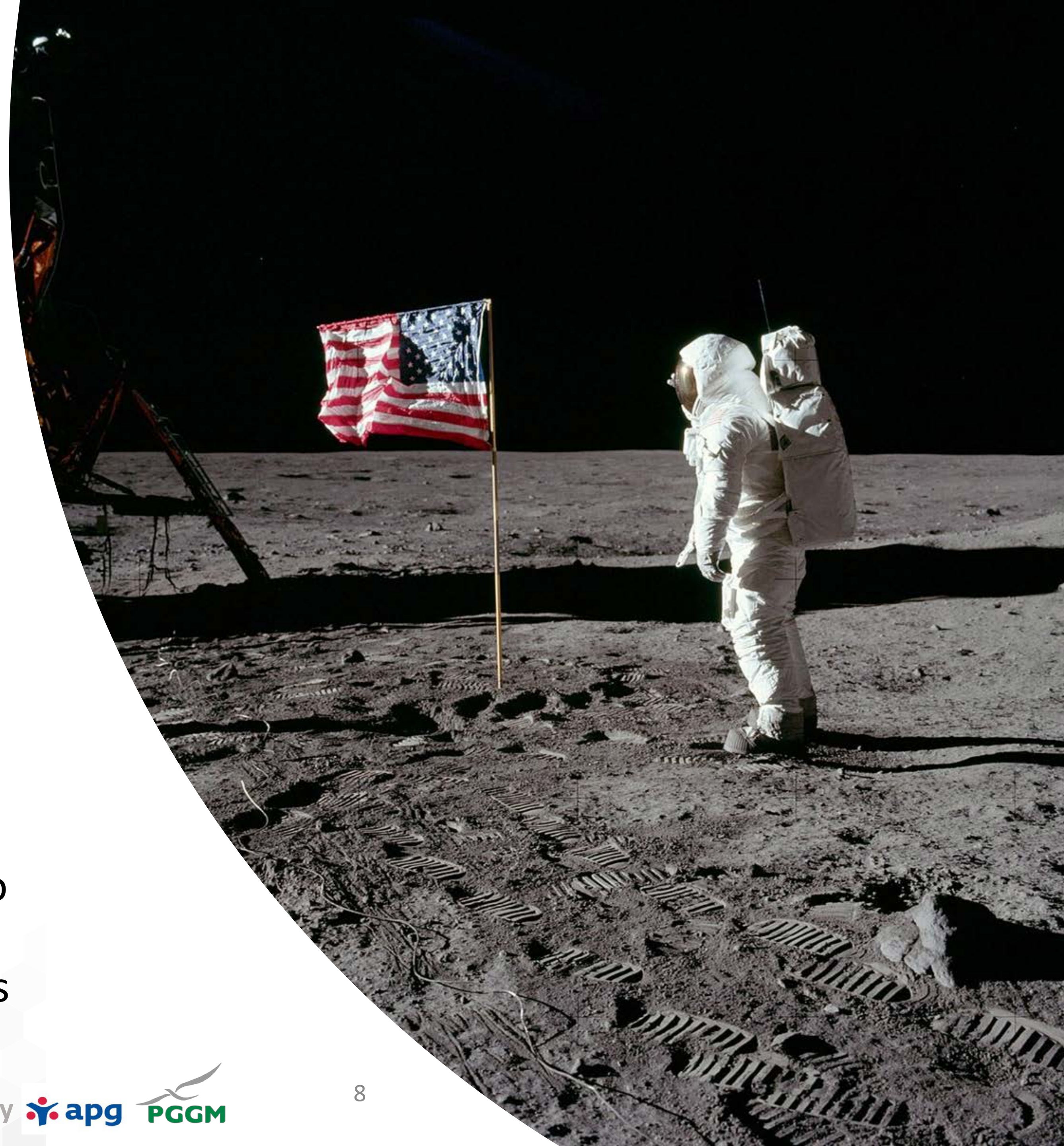
Our mission

Pension Infrastructure Moonshot

Why: we believe that every citizen should be able to obtain good pension services regardless of the type of job they do.

How: with an innovative and creative team we are able to **realize** the full potential of blockchain technology and create a pension ecosystem that benefits all.

What: we create and support a low-cost, flexible and reliable Pension Infrastructure so that pension service providers are able to deliver maximum value for the pension funds and their participants.



Blockchain explained

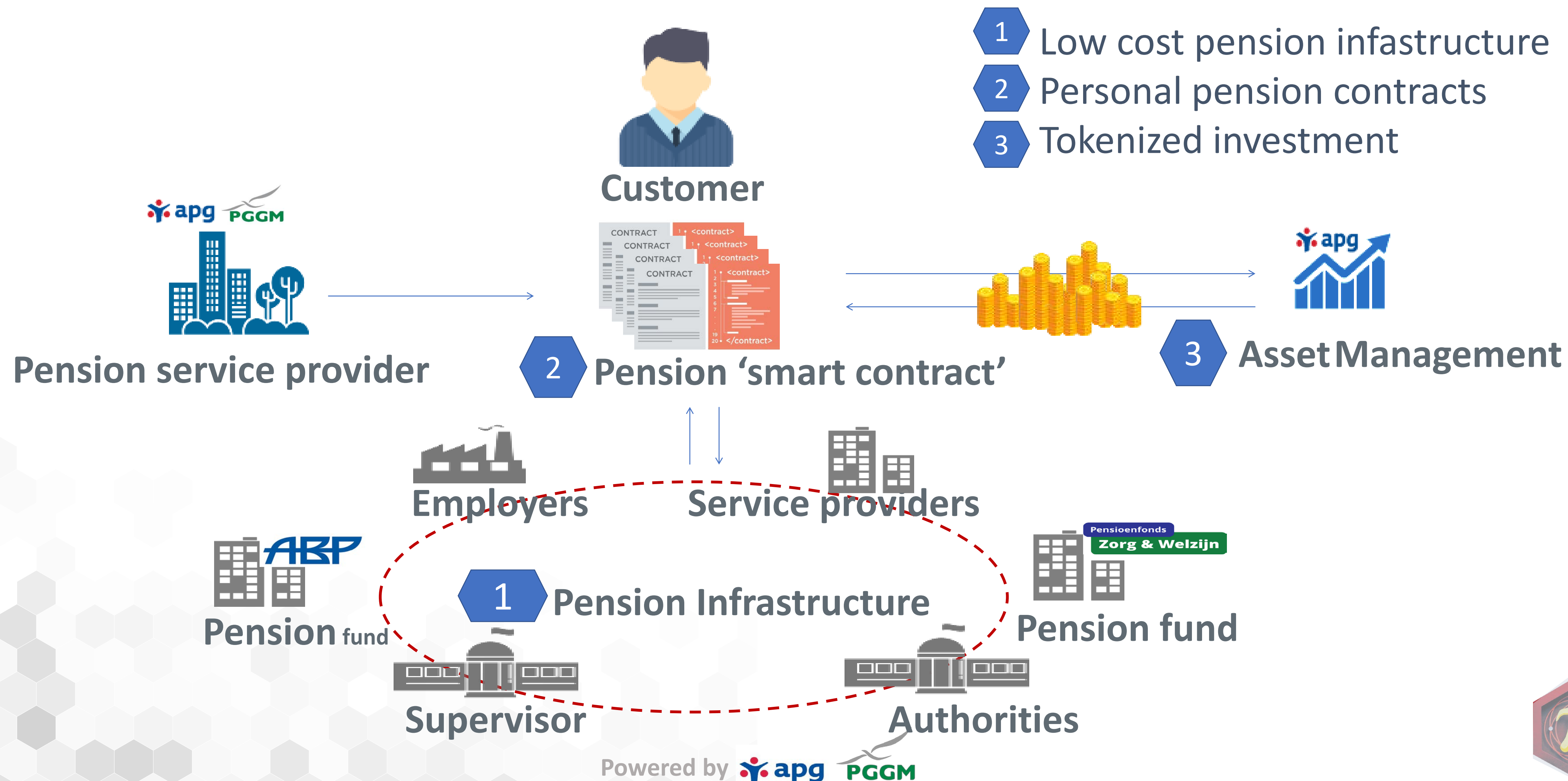
Blockchain provides the technology to transact value, information, business logic, governance, assets and costs in an efficient and secure way,
without the need for a central party

Blockchain enables collaboration, without losing autonomy



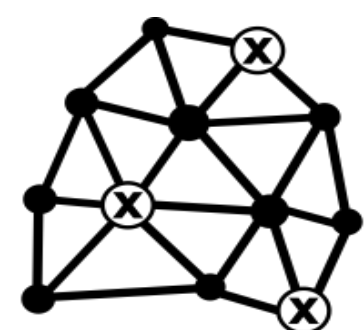
The future of pensions

Low cost infrastructure, smart personal pensions, tokenized investments



Blockchain opportunities

Blockchain promises for the pension sector



Decentralized, because no one single party has full ownership
No autonomy is lost by collaborating.



Integrity, because we can show who owns what and show transaction integrity to prevent fraud



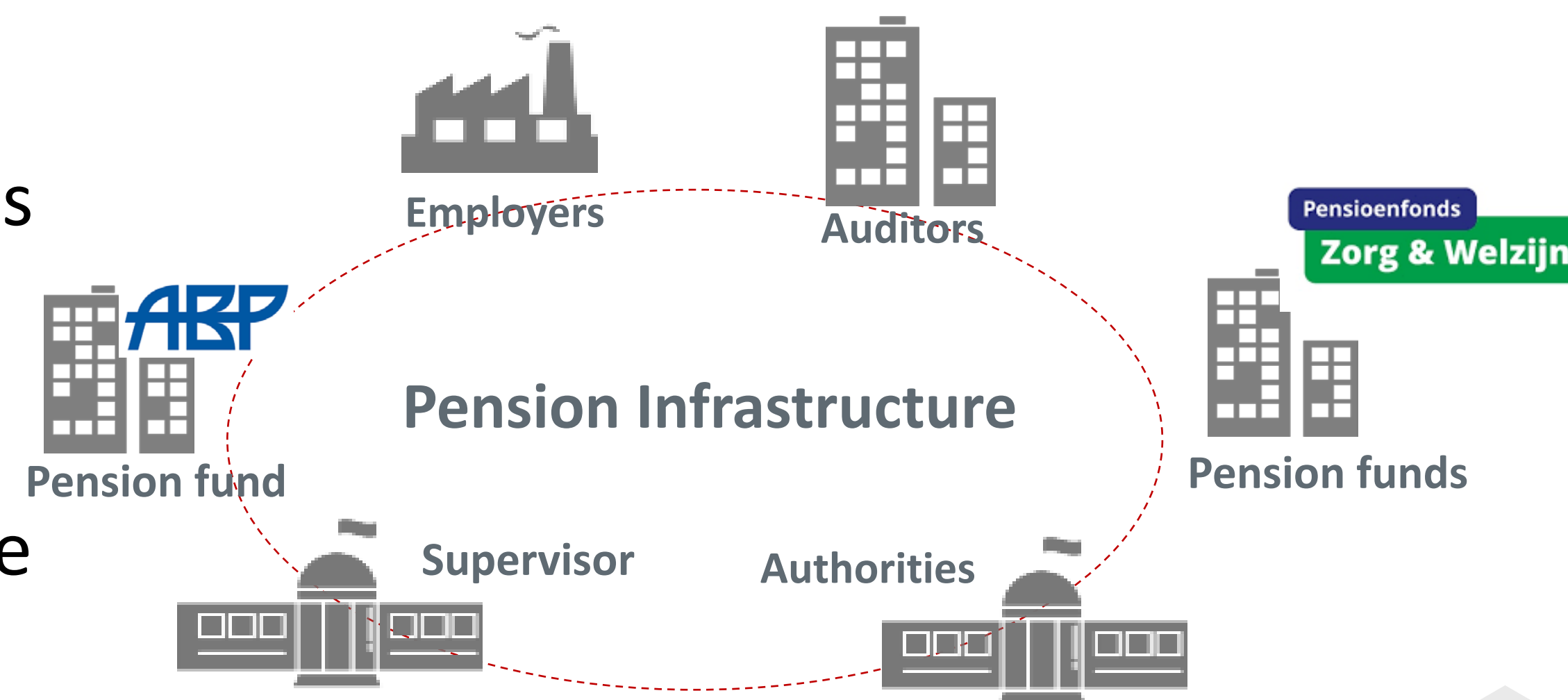
Low cost, because we share infrastructure



Flexible, because all contract types can be executed



Safe, because of decentralized, fingerprinted and controllable ledger



Animation

The animation displays three XML snippets for a `<pension>` element, each with a line number indicator on the left (1 to 20).

Snippet 1 (Blue background):

```

1 • <pension>
2
3   IF <user>.<age>
4     => 60
5   _____
6   THEN
7     <adjust>.<pension>
8     .<age> to 65
9   _____
10
11
12
13
14
15
16
17
18
19
20 • </pension>

```

Snippet 2 (Red background):

```

1 • <pension>
2
3   GET
4   <pension amount>
5   _____
6   IF <user>.<key> =
7     d41d8cd98f00b2
8   _____
9   THEN
10    <show info>
11  _____
12
13
14
15
16
17
18
19
20 • </pension>

```

Snippet 3 (Orange background):

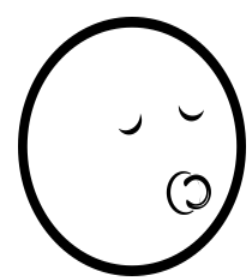
```

1 • <pension>
2
3   IF <user>.<key> =
4     [supervisor]
5   _____
6   THEN
7     <permission> =
8     [read only]
9   _____
10
11
12
13
14
15
16
17
18
19
20 • </pension>

```

The word "Authorities" is visible at the bottom center of the animation area.

Multiple uncertainties in blockchain development



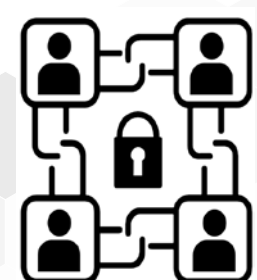
Technology maturity

Blockchain technology is new and immature. Scalability, interoperability and standardization are major challenges.



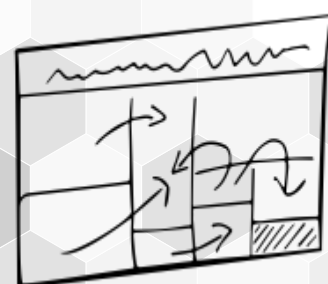
Governance & Legal

Current governance and legal frameworks don't match with characteristics of blockchain technology.



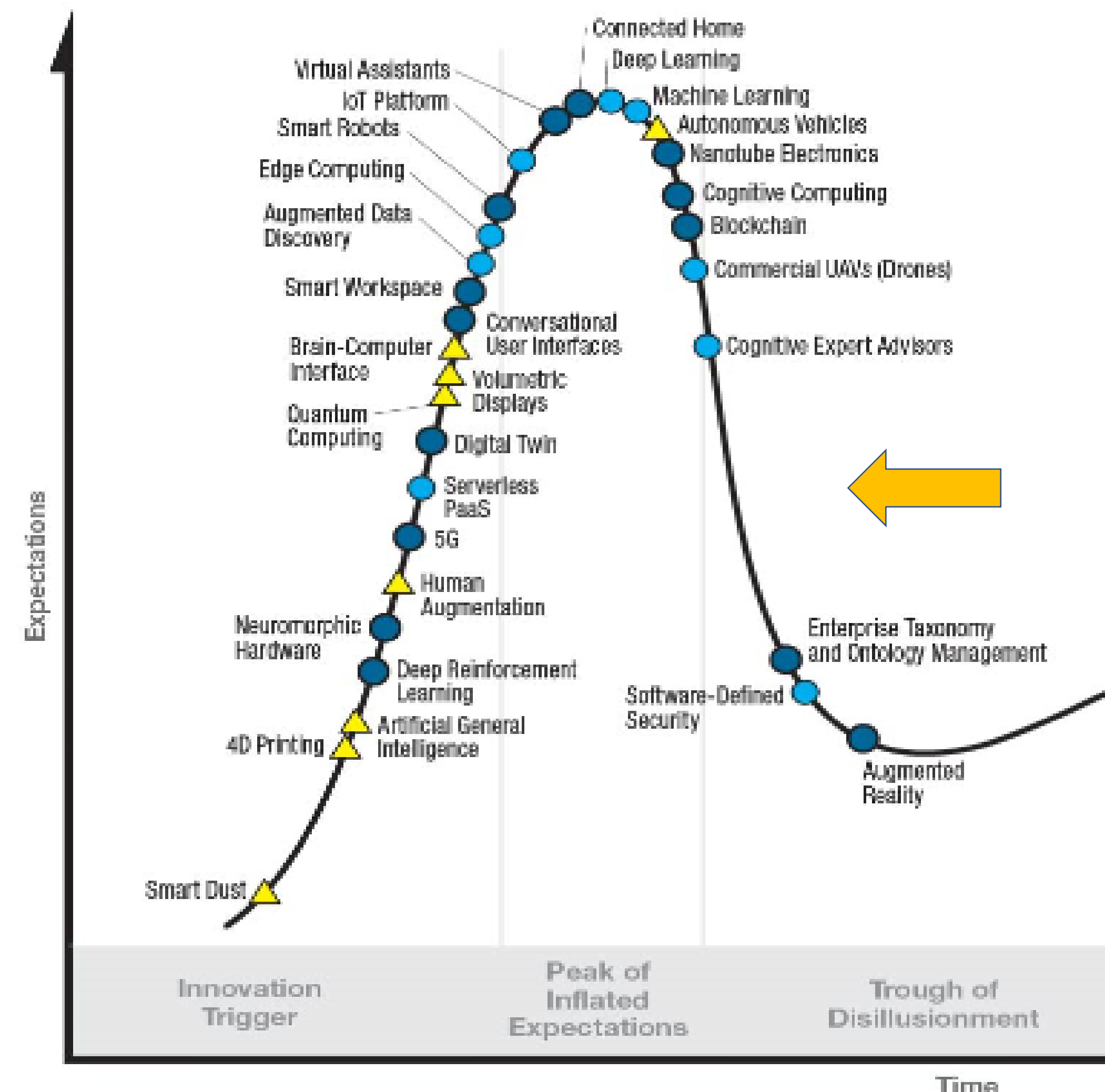
Ecosystem

Ecosystem approach to create mutual value is a different paradigm.



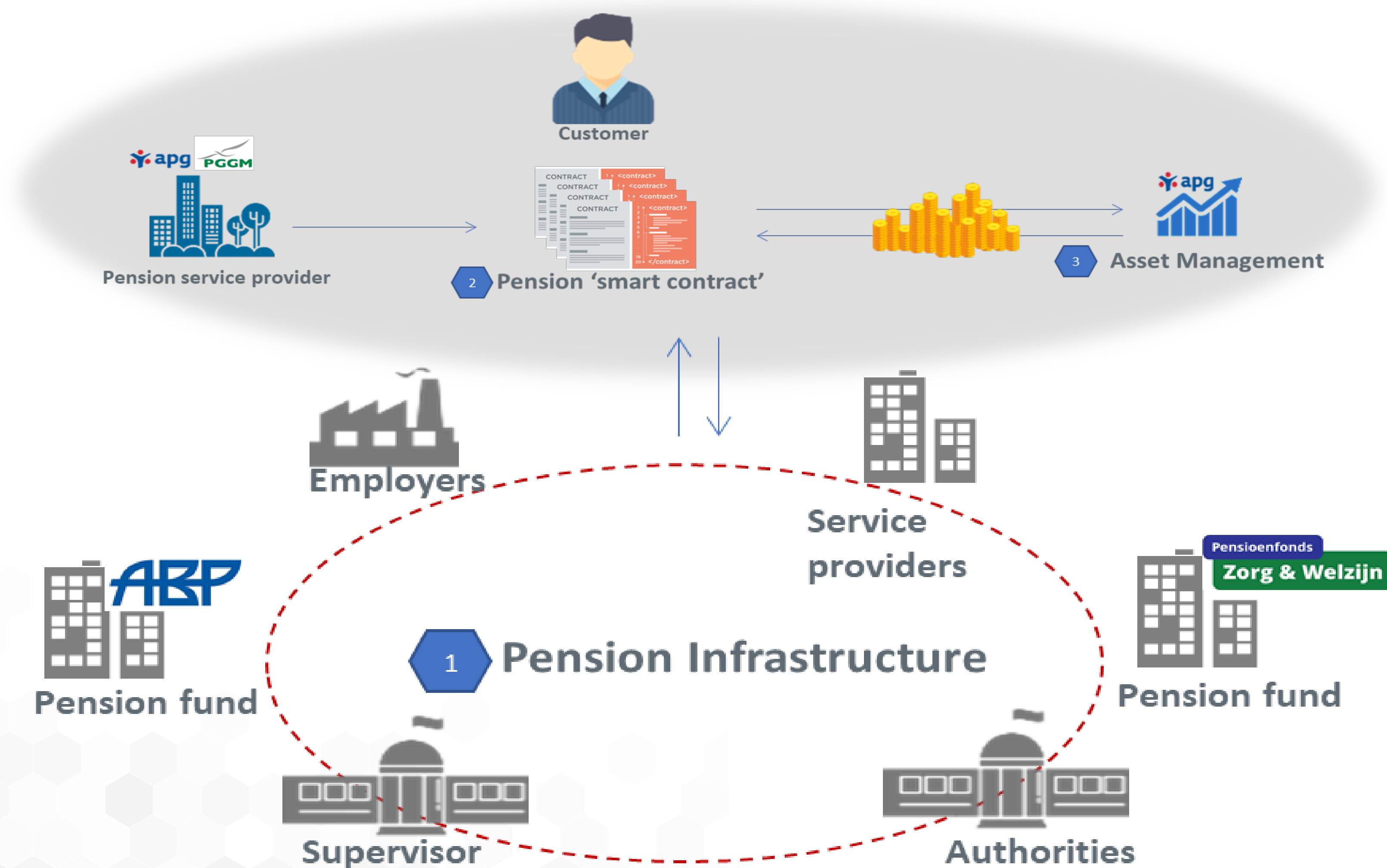
Business model

Using blockchain technology impacts business models, operations and value streams.



The future of pensions

Beginning with the foundation, PI builds the Pension Infrastructure



PI streams

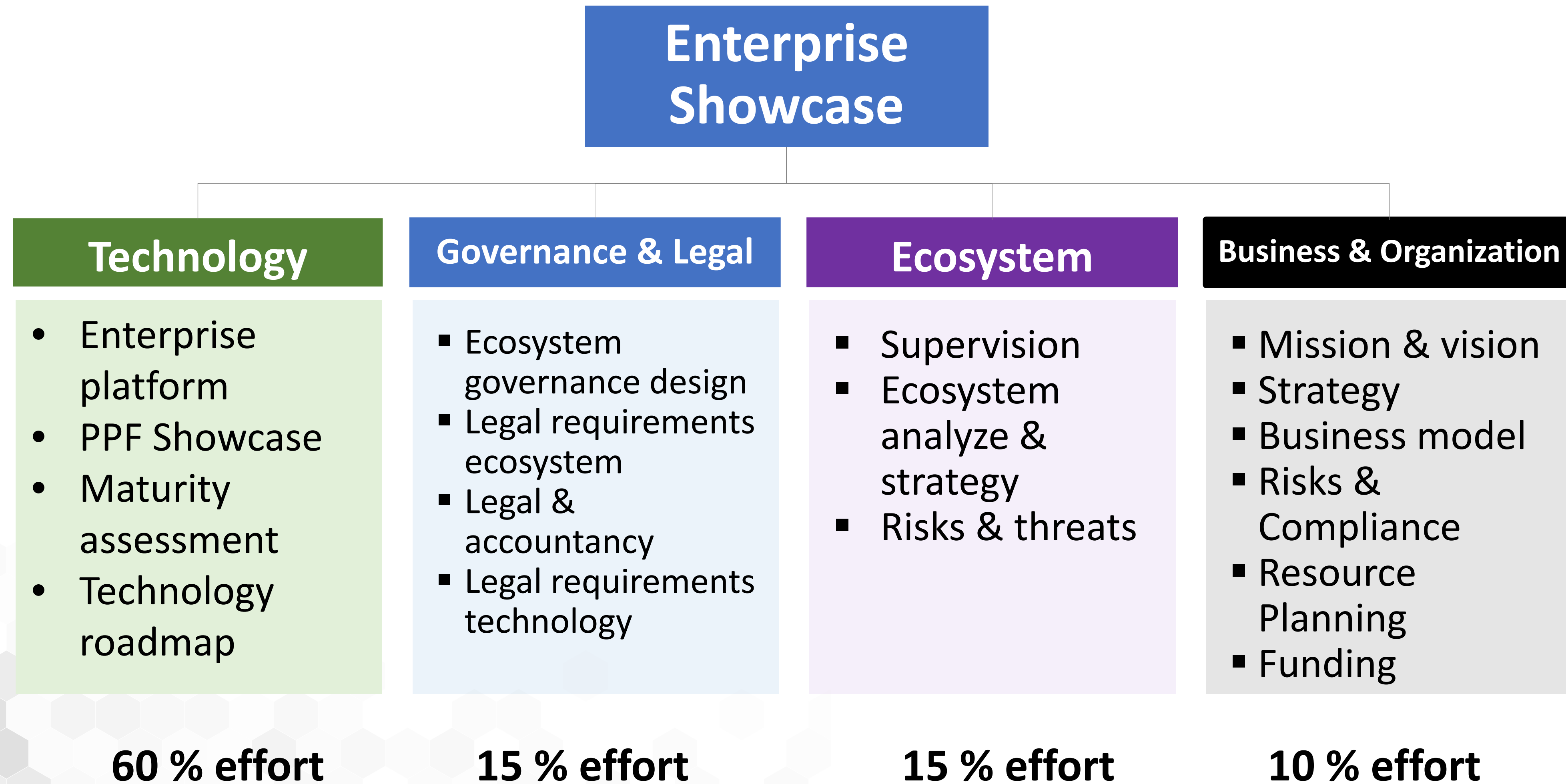
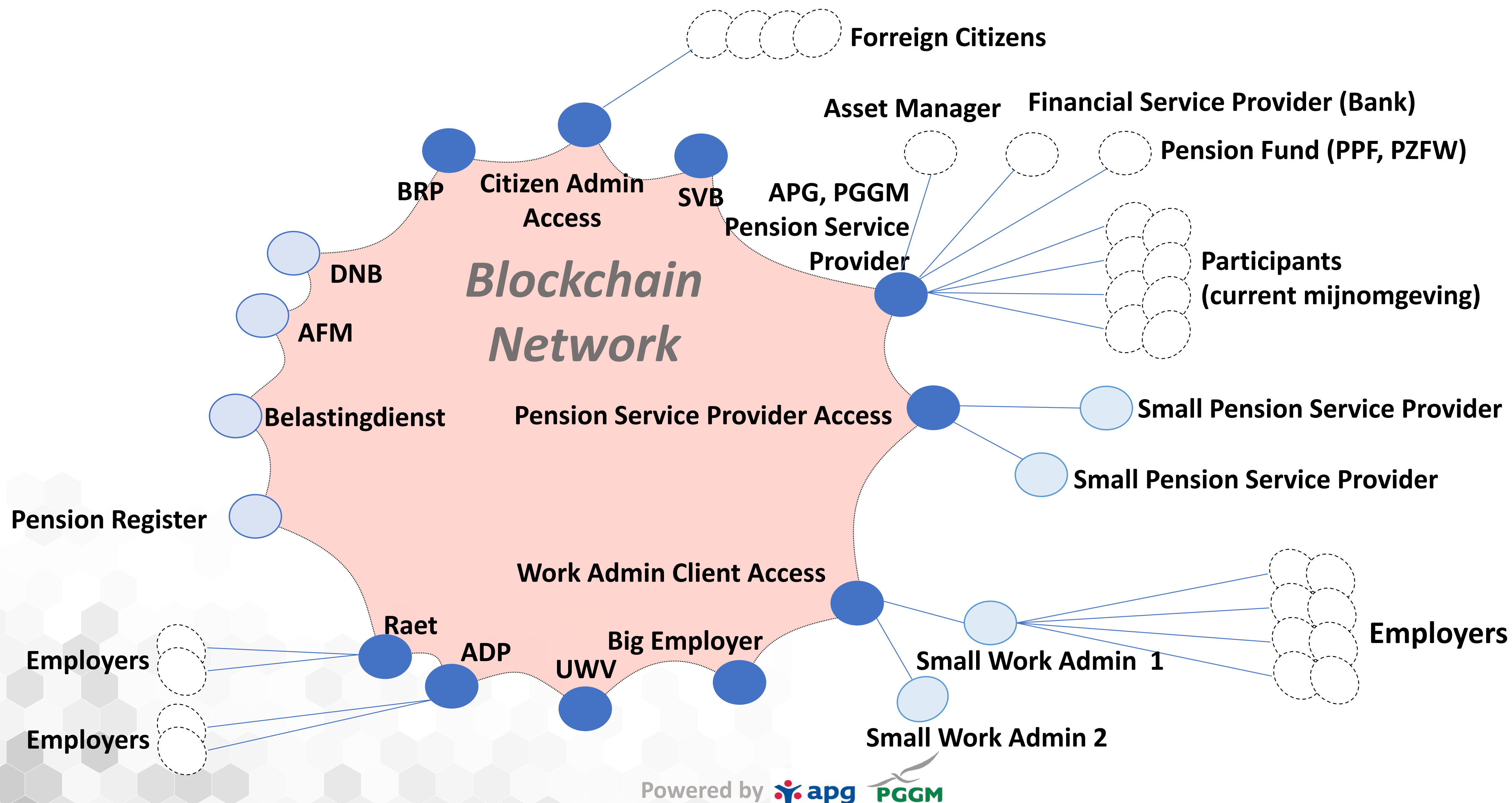
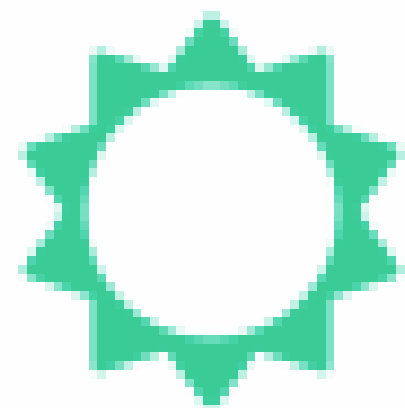


Illustration of the Blockchain ecosystem to be





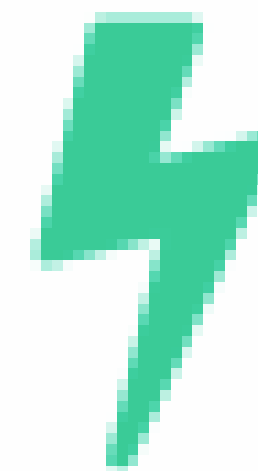
POSITIVE IMPACT

Invest in innovative infrastructure with others to accelerate a sustainable future.



DIRECT OWNERSHIP

Your ownership is registered in a public ledger, provable and viewable by anyone.



GARANTEED VALUE

Reduce your cost of living through the value produced by the infrastructure you own.



CHOICE

Manage a diverse portfolio of infrastructure projects and customize to your lifestyle and desired impact.



NestEgg - Own A Piece of Future Infrastructure



INVEST IN THE FUTURE
YOU WISH TO RETIRE IN

POWERED BY



0:03 / 2:45



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