The current state of Self-Sovereign Identity

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BLØCKSTER
Simplifying your SSI journey

Session Outline

Structure of the session

1. Data collection and background of the survey participants
2. Current state of SSI
3. Adoption challenges and the role of standard development organizations and open source communities

Five discussion points:

1. Key actors of SSI ecosystems
2. SSI Risks
3. Growth scope: key industries
4. Milestones to be achieved for mass adoption
5. Accepted payment methods in SSI systems
6. Ways to motivate experts in collaborating more in SDOs and other communities

Section 1 - Data Collection

Background of the respondents

Data Collection Overview

- *Aim*: to get an overview of the current state of SSI and growth scope

- *First phase*: Exploratory qualitative research

  – Qualitative data gathered via interviews from SSI experts

  – Survey questions are developed collaboratively by many TrustOverIP members

- *Second phase*: Survey data collected since 24 March

  – Primarily from the members of TrustOverIP Foundation

  – Other open source communities, such as MyData, Hyperledger, etc.

- *Number of responses*
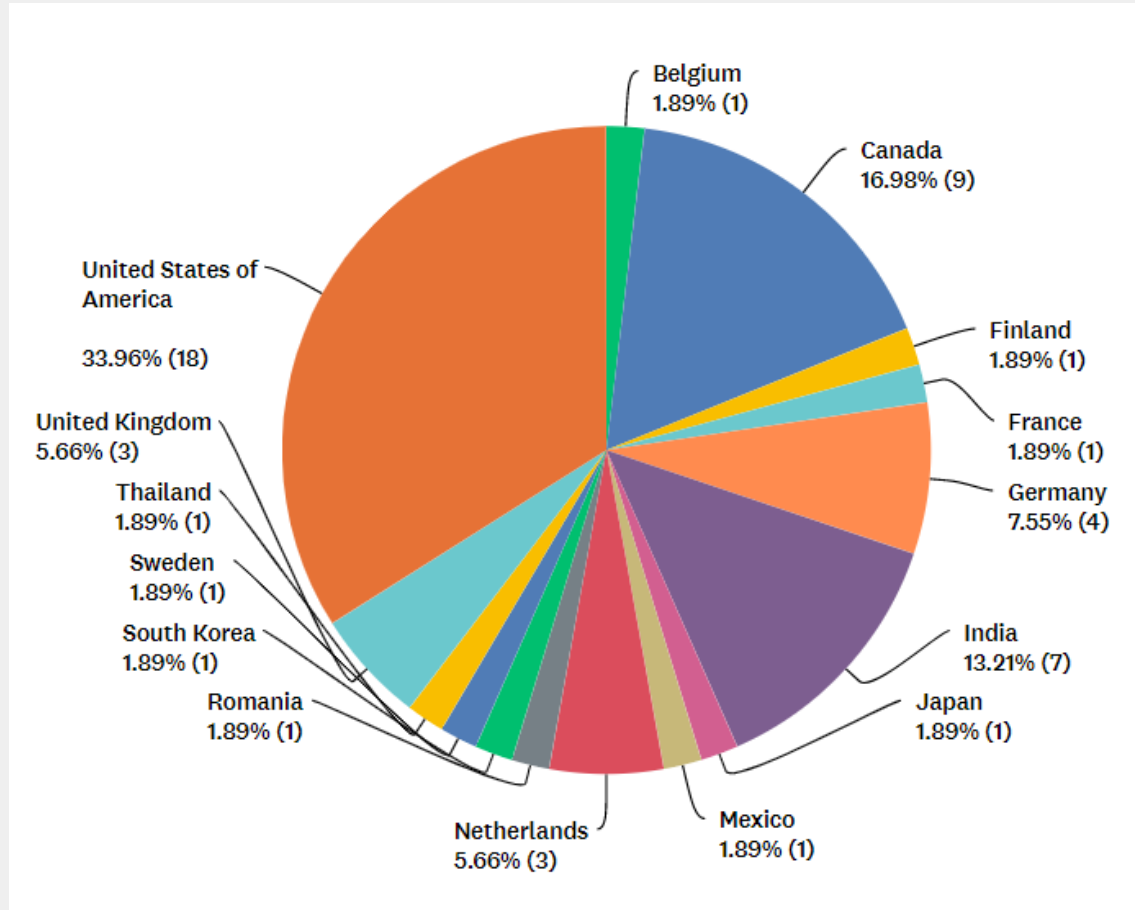
  – 58 complete responses,

  – 70 responses altogether

Please help us to advance the research further by filling in this survey:
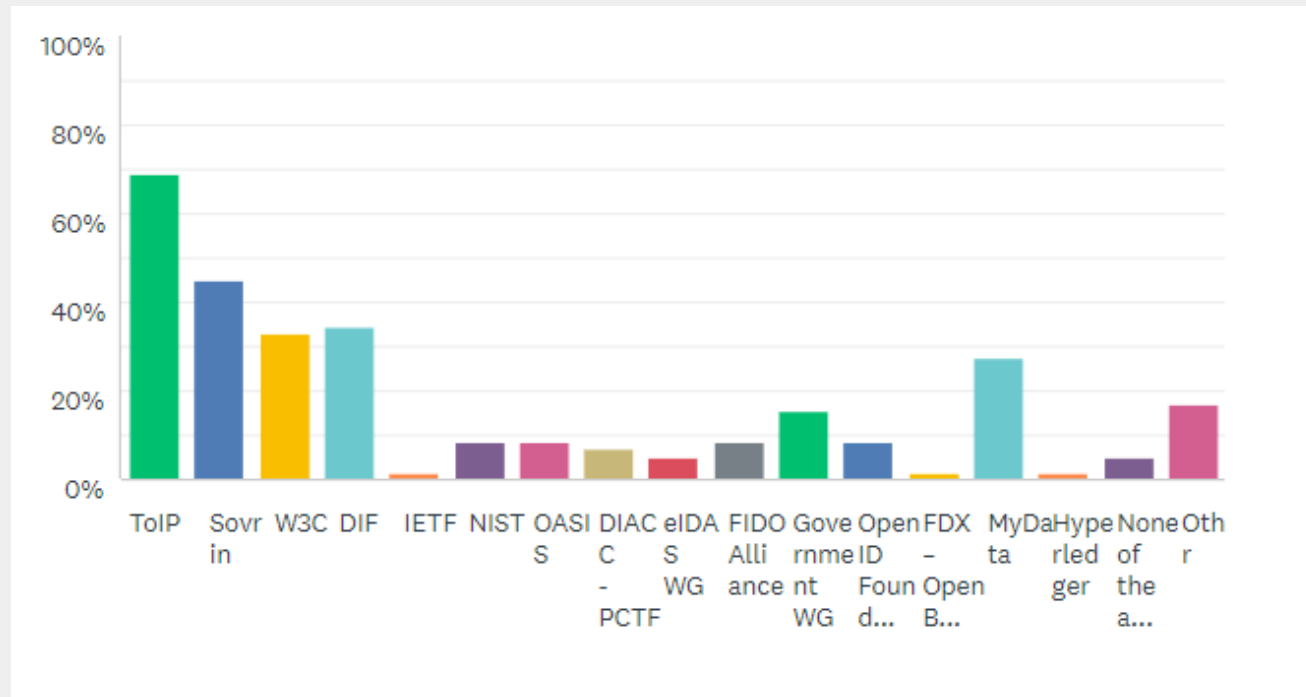https://www.surveymonkey.com/r/QVBFDYH

Country of Respondents

Top 3 countries: US, Canada and India
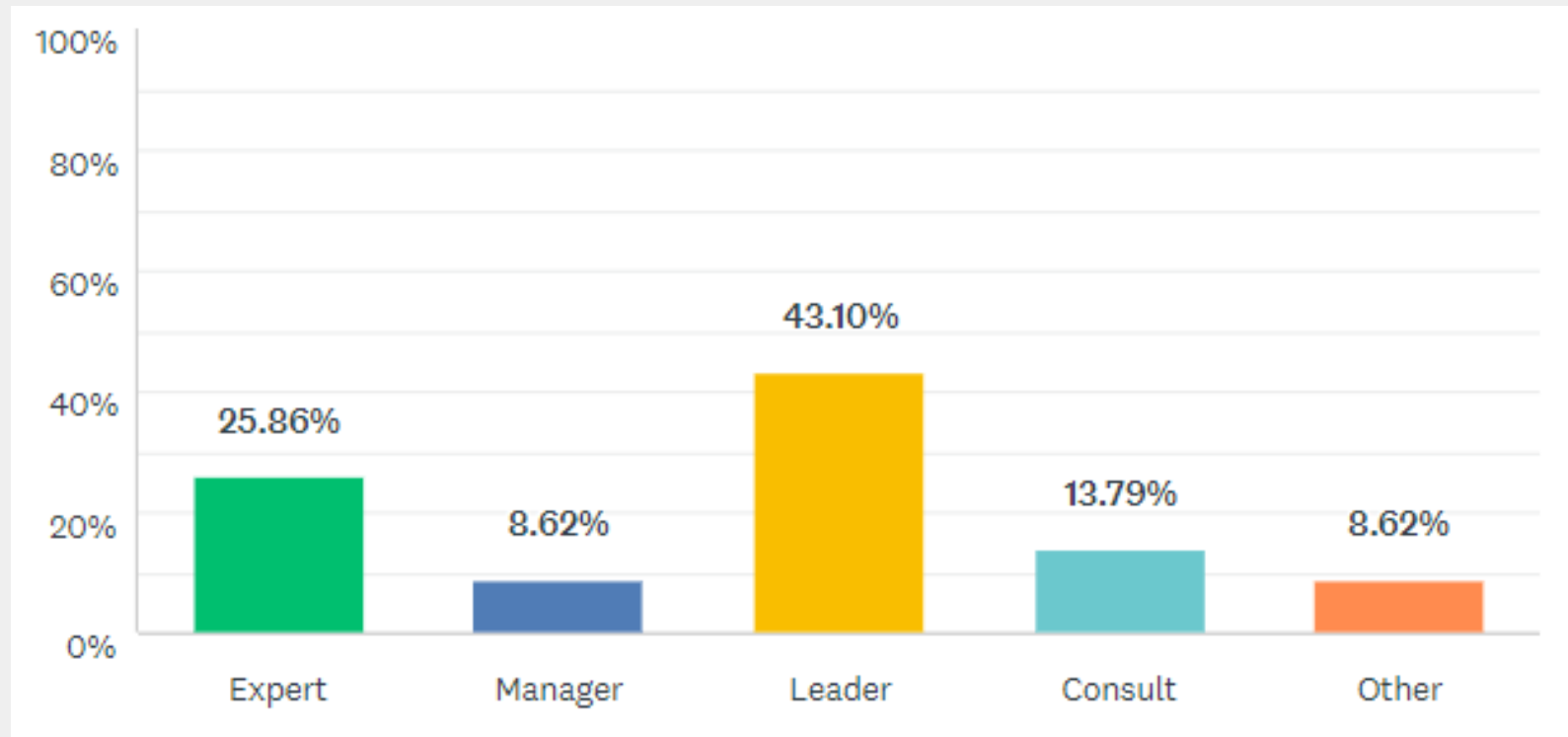
Respondents: SDOs and other communities

- Most of the respondents are ToIP, Sovrin, DIF, W3C, MyData members

- Number of SDOs and other communities that the respondents belong to:
  - 28% to only one, 23% to two, and 17% to three SDOs or other communities
  - 3 person does not belong to any of these organizations
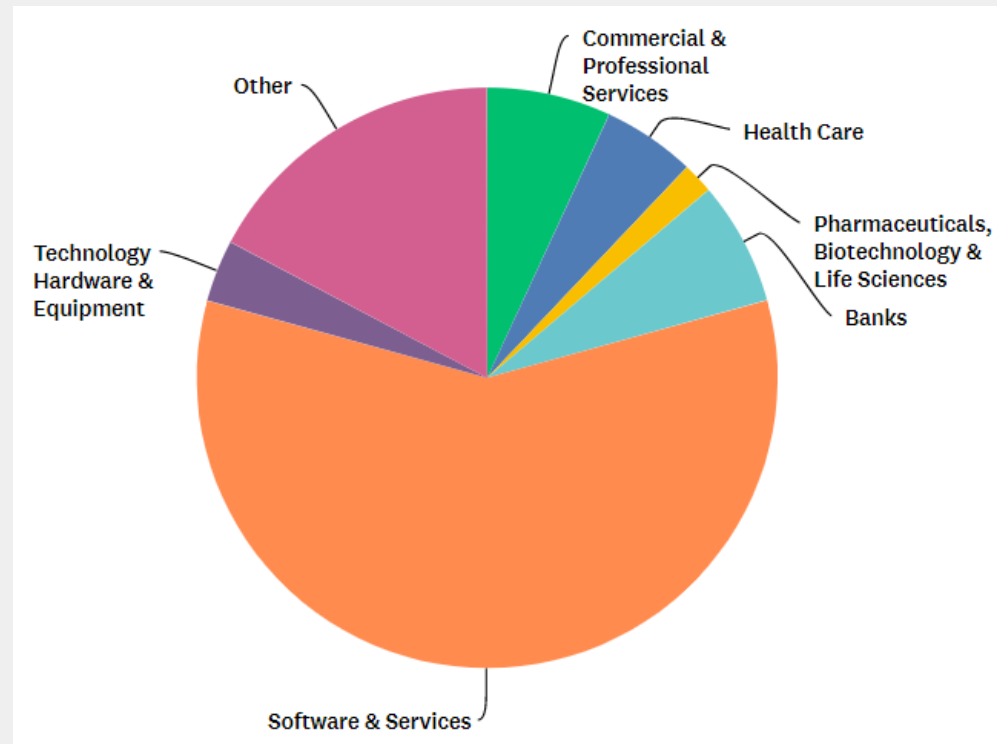
Roles of the Respondents

- Mostly leaders and experts

Industry Sector of the Respondents' Organizations

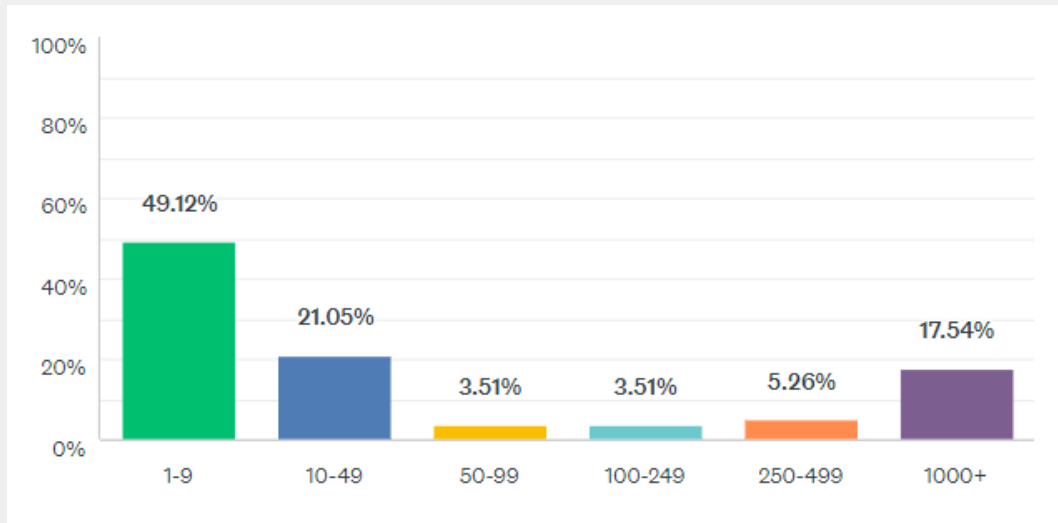- Software and Services is the most common industry
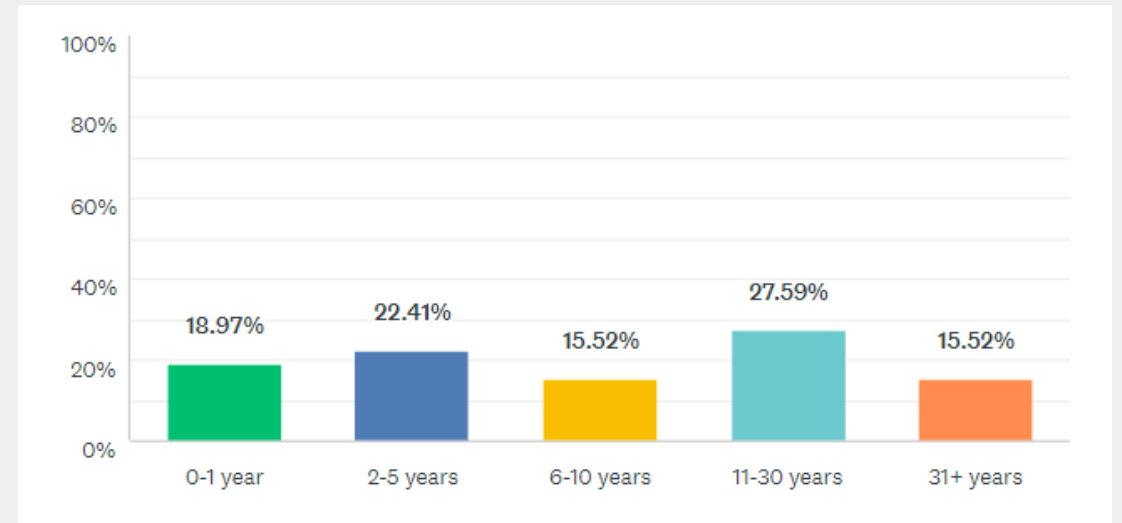
Organization's Size and Age

- Almost 50% are small organizations (1-9 employees)
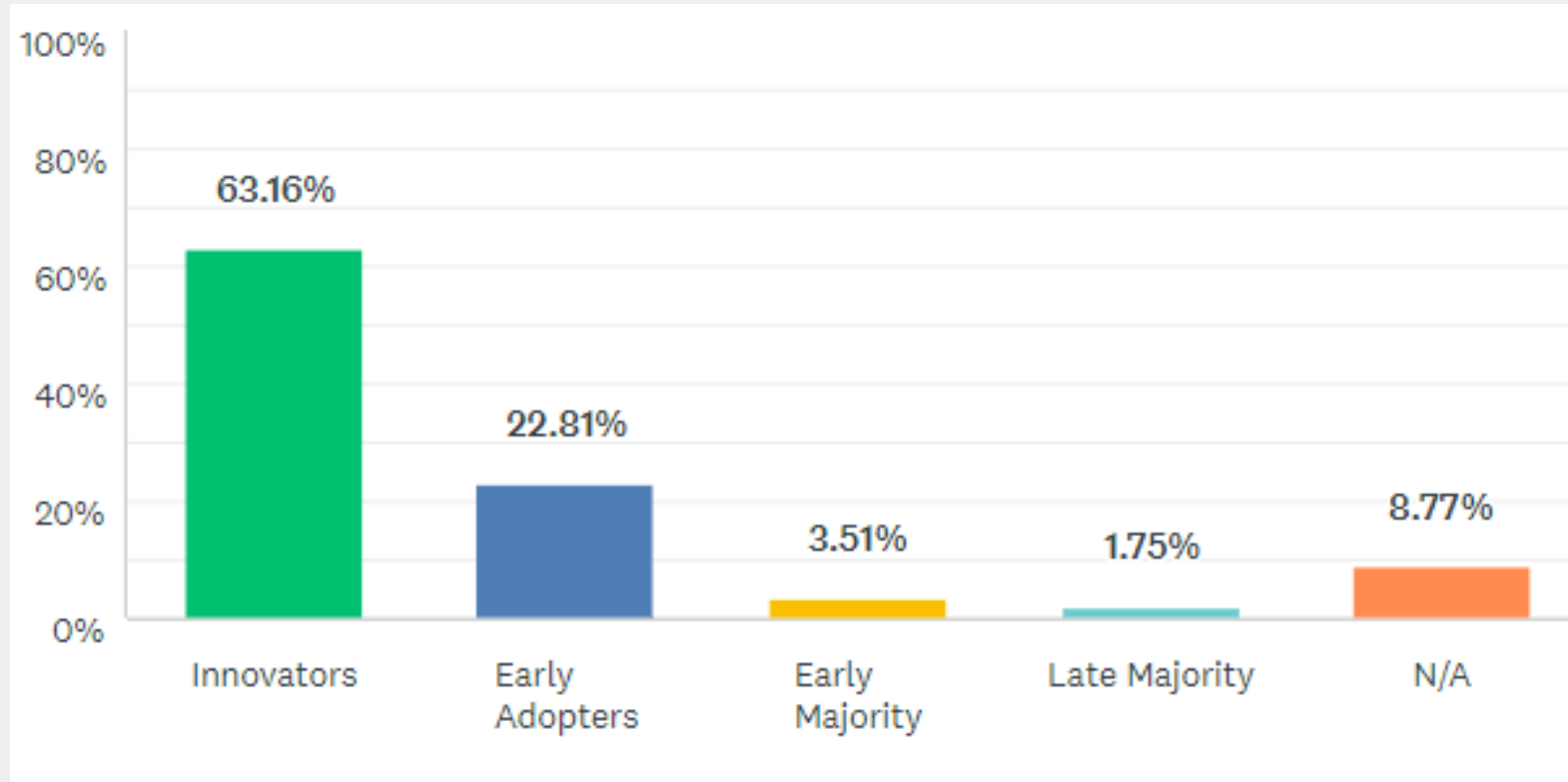

Number of employees

Age of the organization

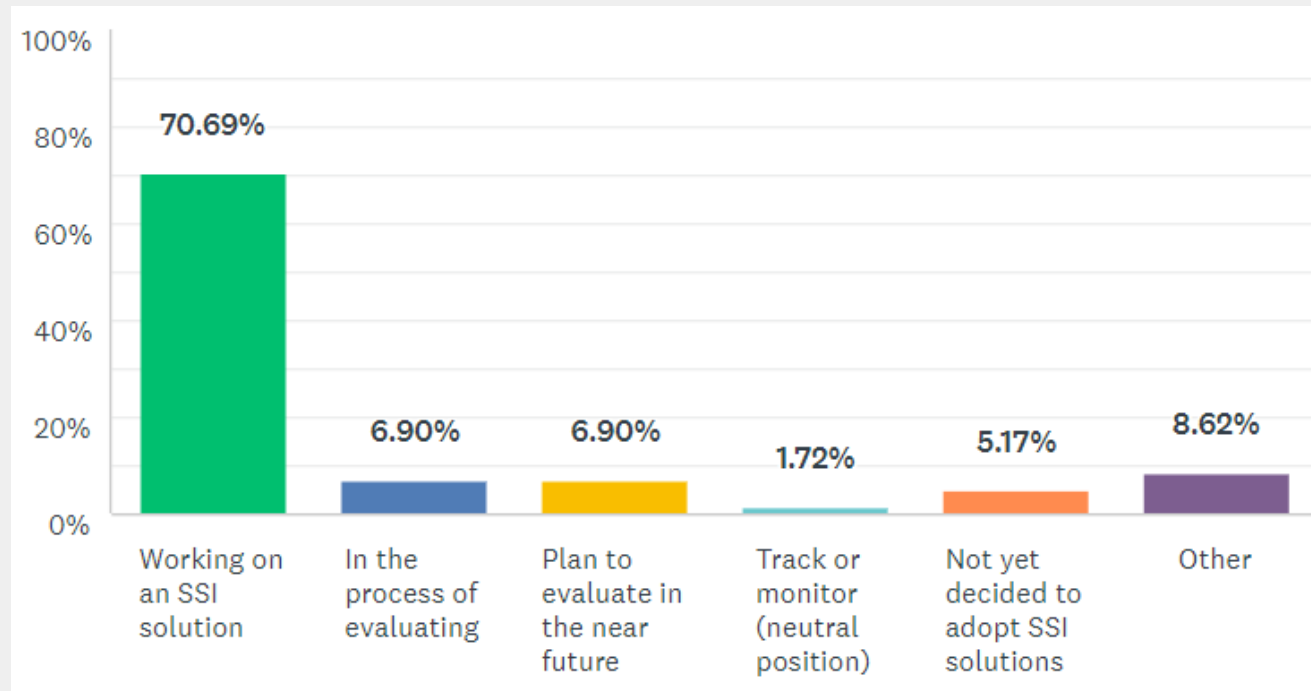# Self-assessed innovativeness of the organization in general

- Innovators and early adopters

Phase of SSI adoption for the respondents' organization

Most of the respondents are working on an SSI solution already
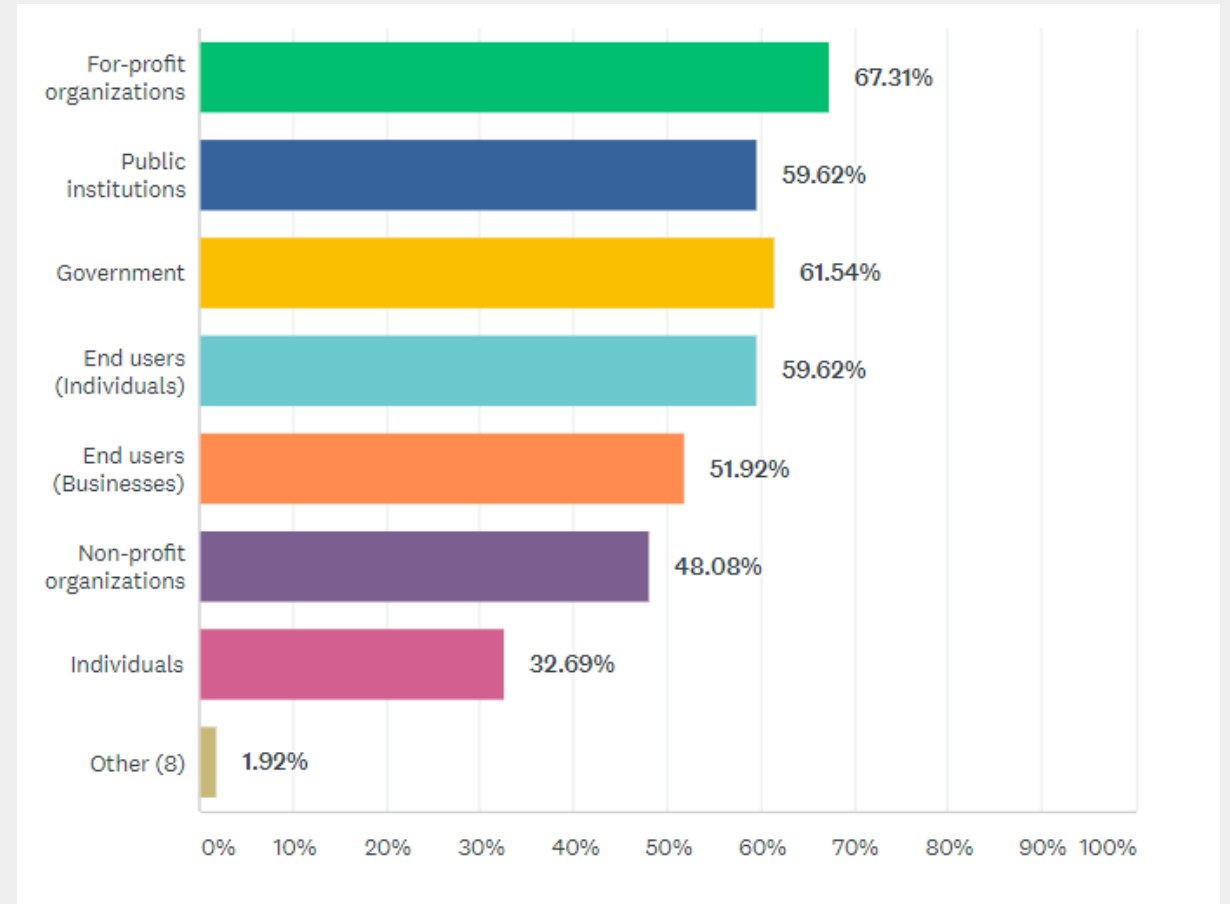
Section 2 - The Current State of SSI

SSI affects the whole society

- SSI might affect all industries: 25 different industries mentioned
  - TOP 3 industry: Software and Services, Banks and Healthcare

- SSI affects everyone:
  - Businesses
  - Non-Profit organizations
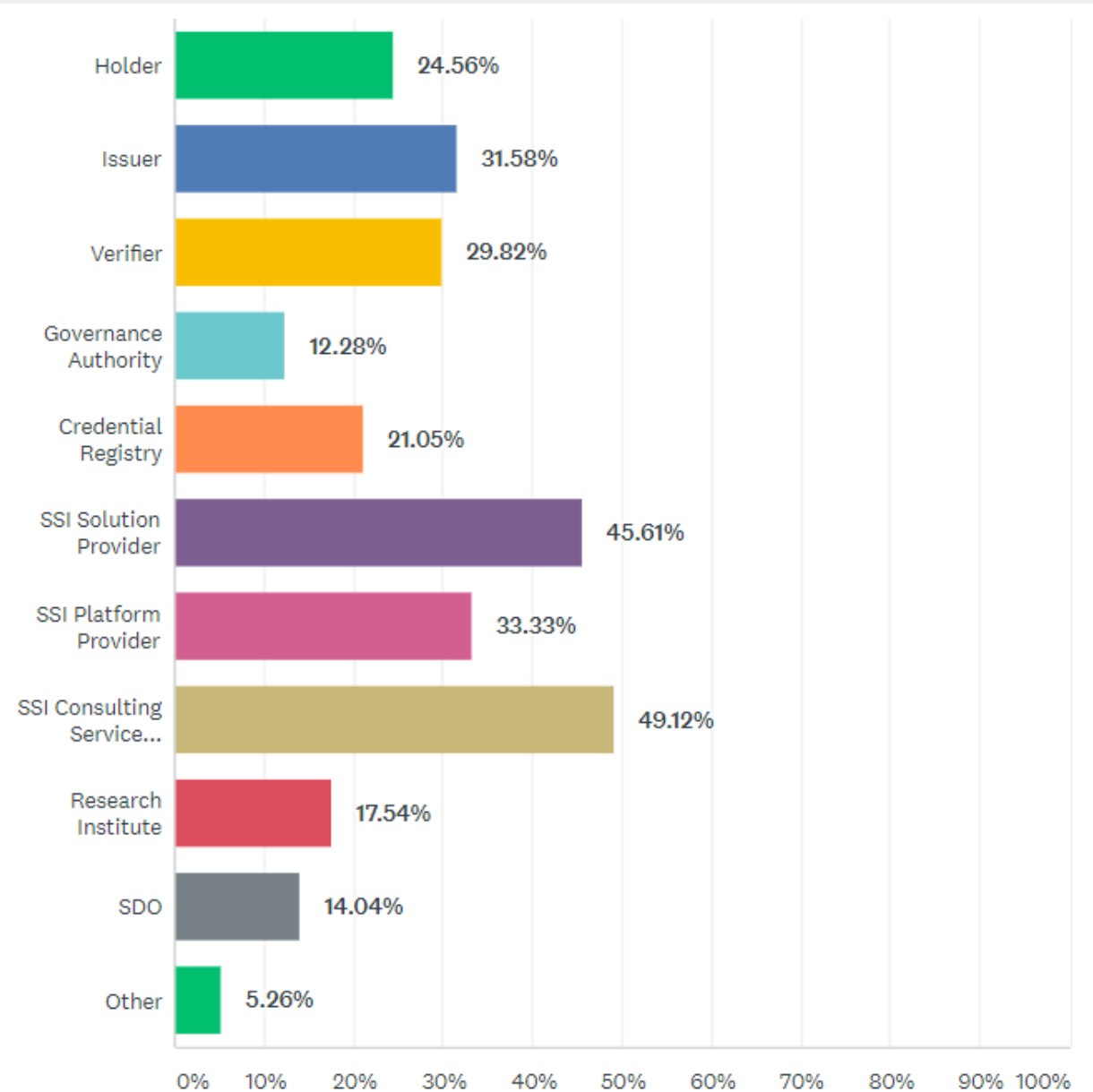 - Public institutions
  - Governments
  - Individuals

Actors in the respondents' SSI ecosystem

Role of the respondents' organization in its SSI ecosystem

- SSI ecosystem seems to be vibrant, participation are from all types of actors
- Surprisingly diverse answers

Role	Percentage
Holder	24.56%
Issuer	31.58%
Verifier	29.82%
Governance Authority	12.28%
Credential Registry	21.05%
SSI Solution Provider	45.61%
SSI Platform Provider	33.33%
SSI Consulting Service...	49.12%
Research Institute	17.54%
SDO	14.04%
Other	5.26%

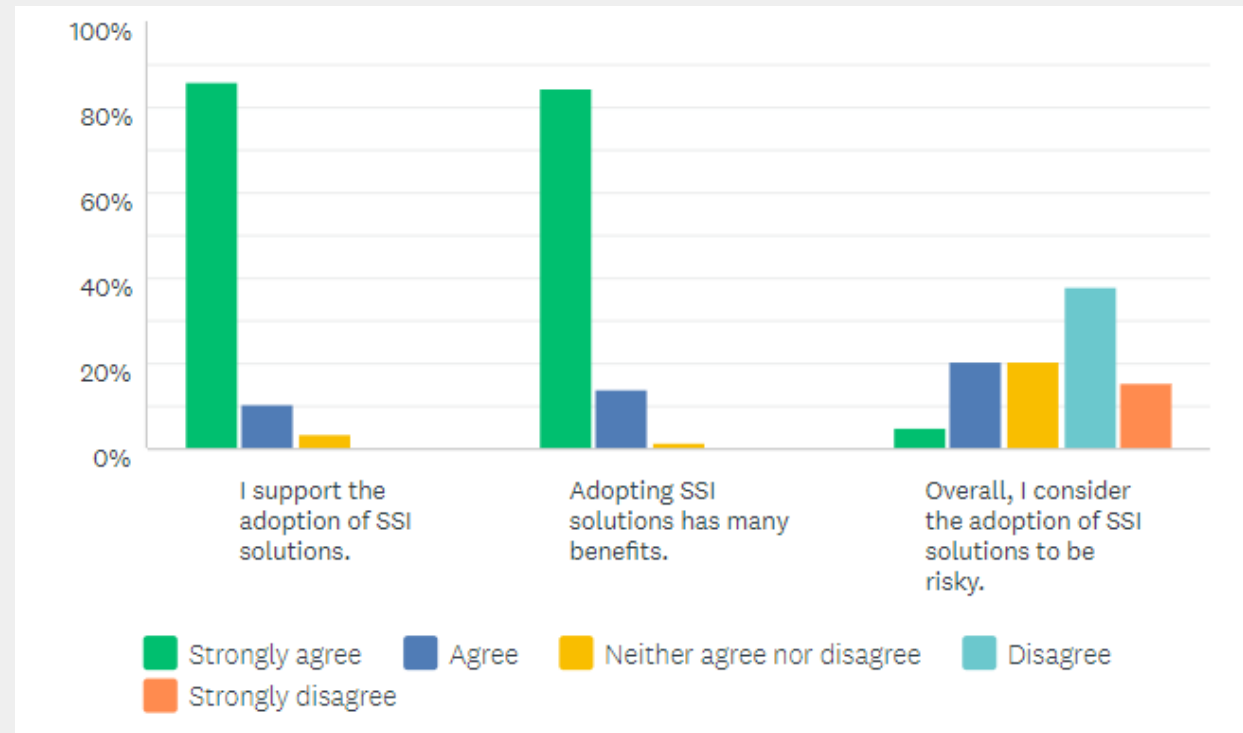# Examples for the key actors in an SSI Ecosystem

Actor	Definition	Example
Governance Authority	Entity responsible for governing the ecosystem in line with the Ecosystem Governance Framework	Governments, consortia
Credential Registry	Entity providing a cryptographically verifiable directory service for the ecosystem	Sovrin, Veres One, …
SSI Solution Provider	Entity providing a full stack SSI solution (incl. issuers and verifiers)	VON, CULedger, …
SSI Platform/Network Provider	Entity providing an SSI infrastructure	CREDEBL (Blockster Labs), Verity (Evernym), Trinsic Studio, etc.
SSI Consulting Service Provider	Entity providing consultancy on SSI	IBM, AyanWorks, Deloitte, etc.

1. Discussion: What are the key actors in an SSI ecosystem?

Attitude towards SSI adoption

- Most of the respondents support the adoption and see it beneficial
- It is not generally considered as a high-risk technology

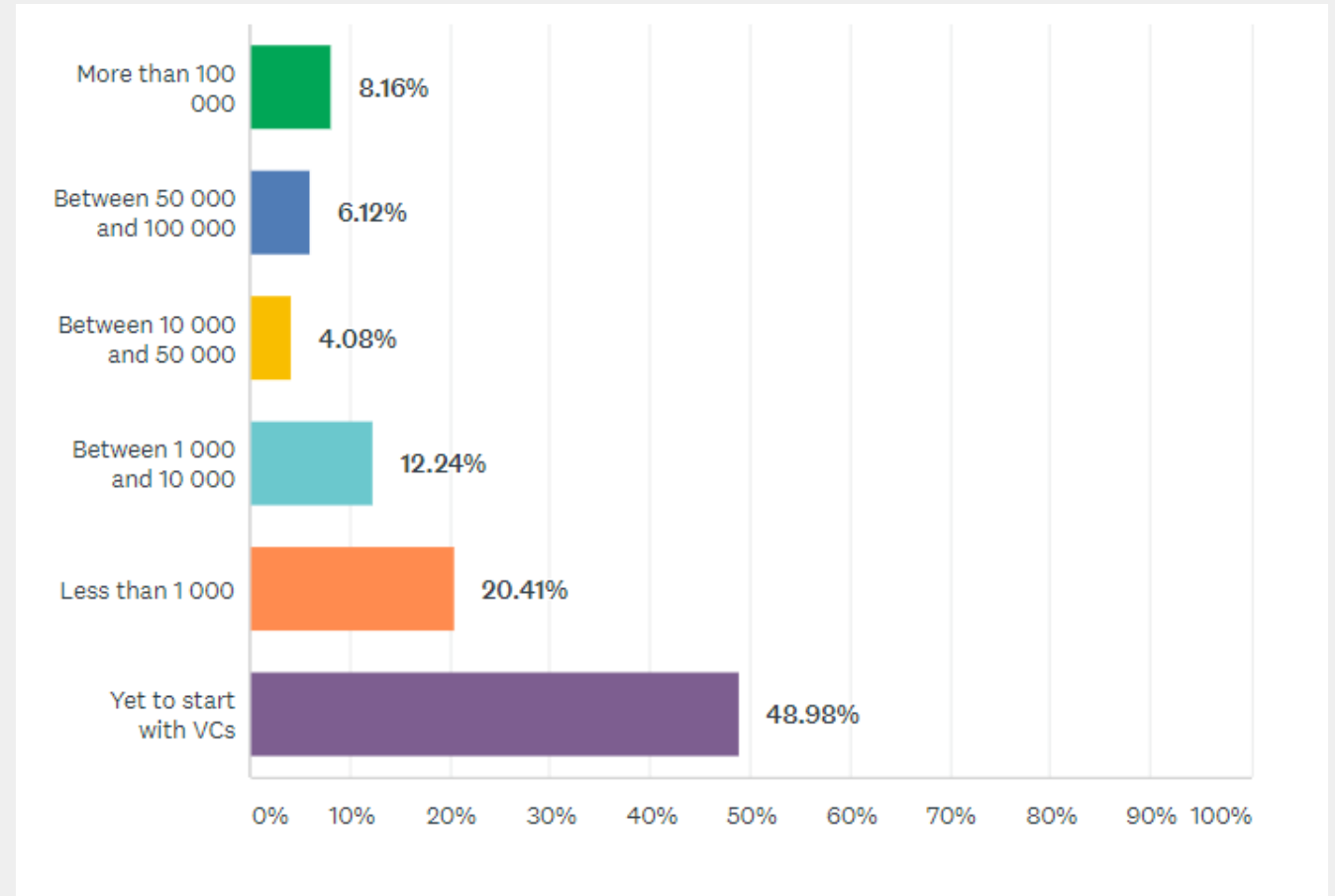**2. Discussion: Is SSI a high-risk technology? What are the key risks?**

The number of VCs in production in the respondent's SSI solution

- Most solutions are not yet in production

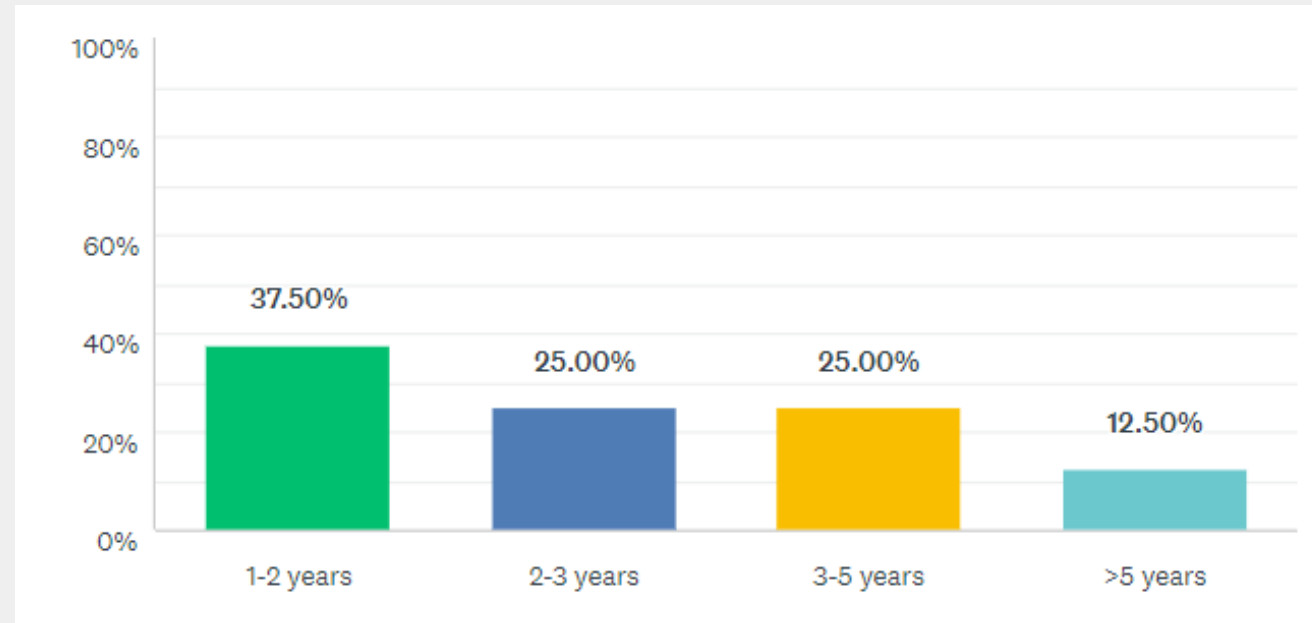- 8% of the respondents have more than 100 000 VCs.

3. Discussion: What are the major industries where large amount of VCs will be issued next?

The number of years when SSI becomes main stream in the respondents' domain

- Rapid development is expected
- 62,5% think that SSI reaches mass adoption within 3 years
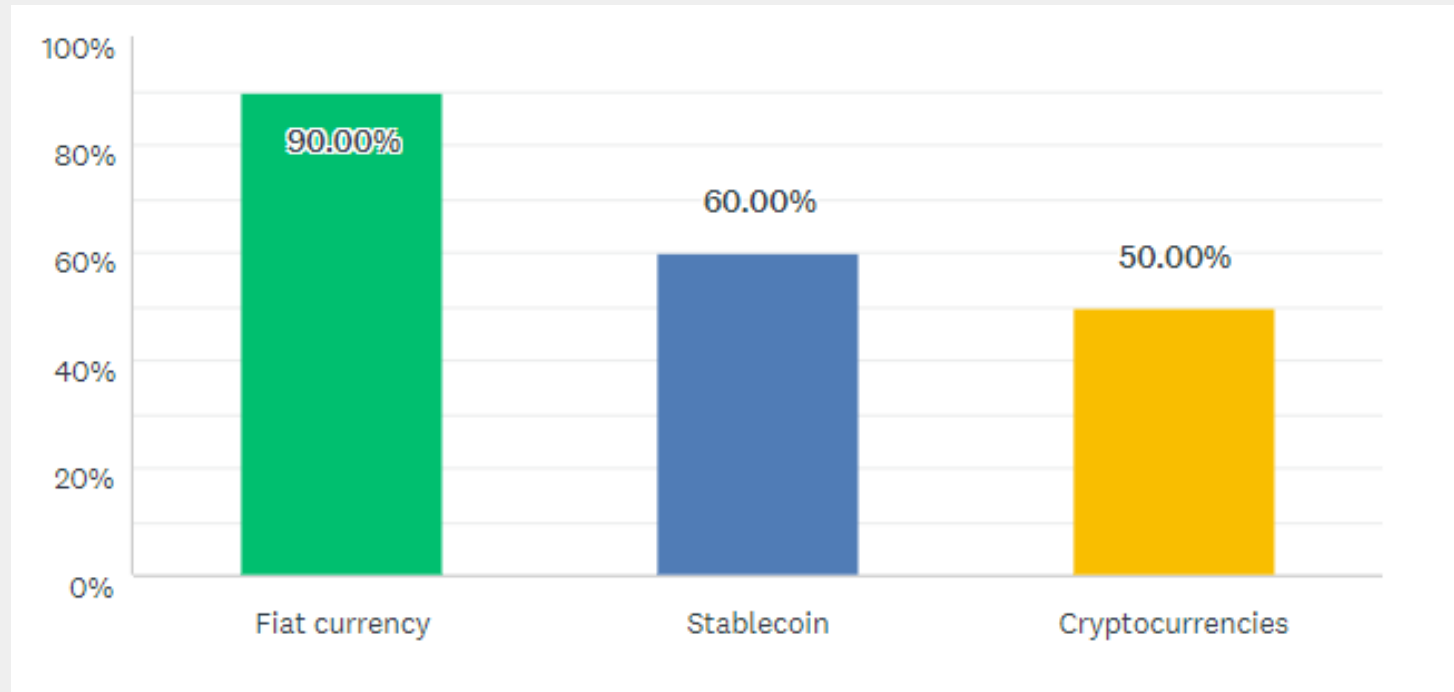

4. Discussion: What are the milestones to be achieved in the next 2-3 years for mass adoption?

Accepted payment methods for SSI services

SSI experts are in favor of universal, globally accepted payment methods

5. Discussion:

Which use cases would benefit from the use of cryptocurrencies and stablecoins?

What are the challenges?

Benefits and challenges

Section 3 - The role of
Standard Development Organizations
and open source communities
in SSI Adoption

Key SSI benefits ordered based on the results

For the society

1. Trustful, secure and private digital interactions
2. Digital transformation
3. Data owners' possibility to control their data
4. Global and interoperable identity

For the organization

1. New innovations
2. Competitive advantage
3. Strategic alliances
4. Simplifying processes

Key challenges ordered based on the results

1. Immaturity of technology
2. Lack of interoperability
3. Challenges of business model development
4. User experience
5. Developing the governance rules and policies
6. Lack of knowledge and understanding

The role of Standard Development Organizations and other open communities in SSI adoption

Key reasons for contribution in SDO activities:

1. Belief in the mission
2. Opportunity to learn
3. Opportunity for networking and building strategic alliances
4. Opportunity to validate my SSI solution
5. Brand association

Key challenges for SSI SDOs:

1. Noise in the space, competing with other initiatives & SDOs
2. Small full-time staff members, limited resources
3. Lack of members' commitment and activity

6. Discussion: How could we incent experts to contribute more in SDOs and other communities?

Thank you!

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