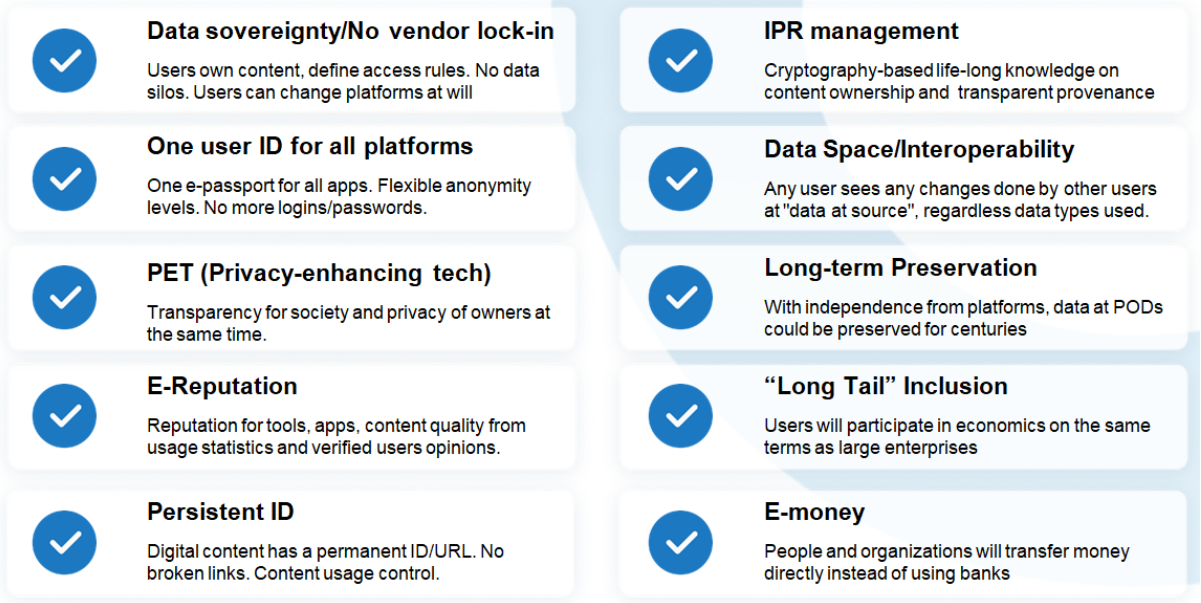
Executive Summary

This document offers a comprehensive description of the Web 3.0 Data Space, a very specific architecture for solving most of problems of modern Internet and platforms: monopoly of platforms, data ownership, IPR control, long-term preservation etc.
A number of leading projects have been working on this problem for a decade (European Data Space, IDSA, Solid, Gaia-X, MyData and many others), but so far none of them have achieved tangible results or presented a sustainable/scalable architecture and solution.
We have to admit that even articulation of a clear definition of the Data Space is a challenge for most of those projects. Given this unclear situation, we decided to start the whitepaper by defining what is a Data Space. The best way to do this was to create a series of business cases that would describe the main problem areas common to all industries. This is done in section Challenges and Biz-cases of the document. We have defined the following blocks (this list is not complete):



In each of these blocks we offered several specific biz-cases from different domains. Biz-cases are high-level functional business requirements. E.g., museums may ask for "*Long-term preservation for centuries for all data*", railways demand "*Passengers can get a multi-modal route with ANY app of their choice*", governments need "*Peoples' spending data without violating privacy*" and citizens need "*Simple yet secure e-voting*" and "*One e-passport to get all services*". Biz-cases will be the starting point for any architecture and technical discussion.
We decided to start from biz-cases as we see a number of initiatives which discuss protocols and even standards without any attempt to answer simple WHY questions at the business level.
We discussed it with many reps of Solid and IDSA communities, and we got initial support for this approach. Also, biz-cases will allow us to avoid direct confrontation in the discussion on "which protocol is better". We suggest that first we agree on the biz-cases and then the protocol requirements and implementation will follow. This is the most natural way to develop any technology.
We propose the Data Space community (united within the IDSA project) to develop the biz-cases further in the process of discussion with specific industries.
Thus, a set of such biz-cases defines the ***Data Space landscape*** and ***is*** the definition of Data Space.
With the biz-case landscape ready, we invite any project, from blockchain to Mastodon, from Solid to MyData, to review it and indicate which of these biz-cases it can solve. This will allow us to see