

National Investments Strategy Foreseer (NISF)

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Abstract

Nowadays, fulfilling most organizational procedures requires the usage of a significant amount of data, an aspect which leads to various integration and confidentiality challenges [1]. Most Romanian institutions avoid these issues by producing information which cannot be automatically processed [2]. This leads to a poorly developed B2B cross-sector integration chain [1] and a non-transparent spending of the subsidized EU budget [3].

We believe that the National Investments Strategy Foreseer (NISF), a decentralized data sharing and aggregation platform would facilitate the tracking of budget spending, while also computing the efficiency of growth for multiple industries. The first step is to establish a suitable semantic modelling [4] [5], which should be used to structure the metadata extracted through text understanding techniques [6]. Afterwards, state of the art statistical models [7] should be applied and improved, so to gain an insight over the investment/spending model of the Romanian economy. To increase expenditure transparency, the obtained charts should be visible in NISF for anyone. The system should be permissioned in terms of access to documents and metadata sharing should be possible only between entities with certified identity [8]. To ensure data confidentiality regulations are followed [9], NISF’s core mechanisms will be built using the permissioned blockchain [10] offered by the PrivateSky European Project [11].

The promising capabilities of NISF, applied on data provided by the entities of any European economy [12] [13] would be a reliable aid for the EU representatives when deciding the most valuable development strategies for a country.

Keywords: B2B; Decentralized & Permissioned Systems; Text Analysis; European Development Strategies;

Domain: computer science

Section: New (2020) thesis proposals

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