



“Big Ideas” are coming

Taoufik Ben Hassine

RIADI LAB

*Ecole Nationale des Science de l'Informatique, Université la Manouba, Campus Universitaire de la Manouba,
2010 Manouba, Tunisia*

tbenhassine@yahoo.fr, taoufik.benhassine@ensi.rnu.tn

Abstract- This paper deals with the new concept of “Big Ideas” (“**BID**”). **BID** concerns the mass of ideas that can be generated and consumed by citizens in all countries of the world. this world where intelligence is trivialized and democratized. Countries of the world, will take advantages of the power of intelligence of their citizens to plan and achieve these development goals.

Keywords- *Big Ideas, citizen's intelligence, development, future*

I. Introduction

Internet of Things (IoT) [6,7] will involve billions of physical objects in a near future. Data produced and exchanged by these objects count in hundreds of teras and more. We deal here with “Big data” [1]. Big data are generated by humans and by machines. Big data are great mass of information that are complex in their structures and that can't be treated with traditional ways. “Data science” is a relatively new science which deals with “Big data”. With a certainty of 95 per cent, the size of the global population will stand between 8.5 and 8.6 billion in 2030, between 9.4 and 10.1 billion in 2050, and between 9.4 and 12.7 billion in 2100 [2]. The question is what if we think to extract, collect, filter, store, analyze and exchange the thoughts (ideas, opinions, views ...) of humans whatever, wherever, whenever they are. This is what the author coins “Big ideas”(BID). This paper presents this new concept. The remainder of this paper is organized as follows. In section II, we give the purposes of this new concept of BID. Section III will deal with the hierarchal relationships between data, information and idea. Section IV will enlighten us on BID's related future domain researches. Finally, Section IV will relate the conclusions of this work.

II. The purposes of “Big ideas”

When we talk about big ideas, we talk about large scale intelligence production and consuming. The industrial revolution taught us how to deal with machines, but the digital revolution inherited from the centuries of light must teach us to better consider the human race, especially its mental capacities. Respect and listening to what humans think is an integral part of their dignity. We think intelligence must be democratized. The world need every single citizen intelligence power [4]. We invest in artificial intelligence, why not to invest in “Human Intelligence”. In fact, daily, people around the world express their opinions about different aspects of their lives (quality of live, habitat, education, transport,...) they can have thoughts about different subjects such as politics, religion, economy, science ... These supersets of information can be interesting to different actors of our daily life such as politicians, strategists town planners, scientists in different disciplines(sociology, economy...), enterprises in different sectors and first of all citizens. Citizens will see their opinions and thoughts taken into account by different parties, especially by actors who can improve their lives and their future. It is essential to ensure we take the citizens opinions into account when planning for the future[3].This will encourage them to express their thoughts to different media and different networks (social networks, specialized websites that will appear, ...) and this will be more interesting to the actors dialectically.

III. Data, information and idea relationships

Data are raw material for information and information are components for ideas. The Figure 1 illustrates the hierarchical relationship between these three entities, data, information and ideas. Of course, ideas can be the basic constituents of philosophies, doctrines and other global thoughts. To hold ideas, we need more up-to-date technologies, more complex structures perhaps with logical and semantic relationships, more concerns with context because ideas are more close to man and his thoughts [5]. Nevertheless, artificial intelligence offers to machines the ability to think.

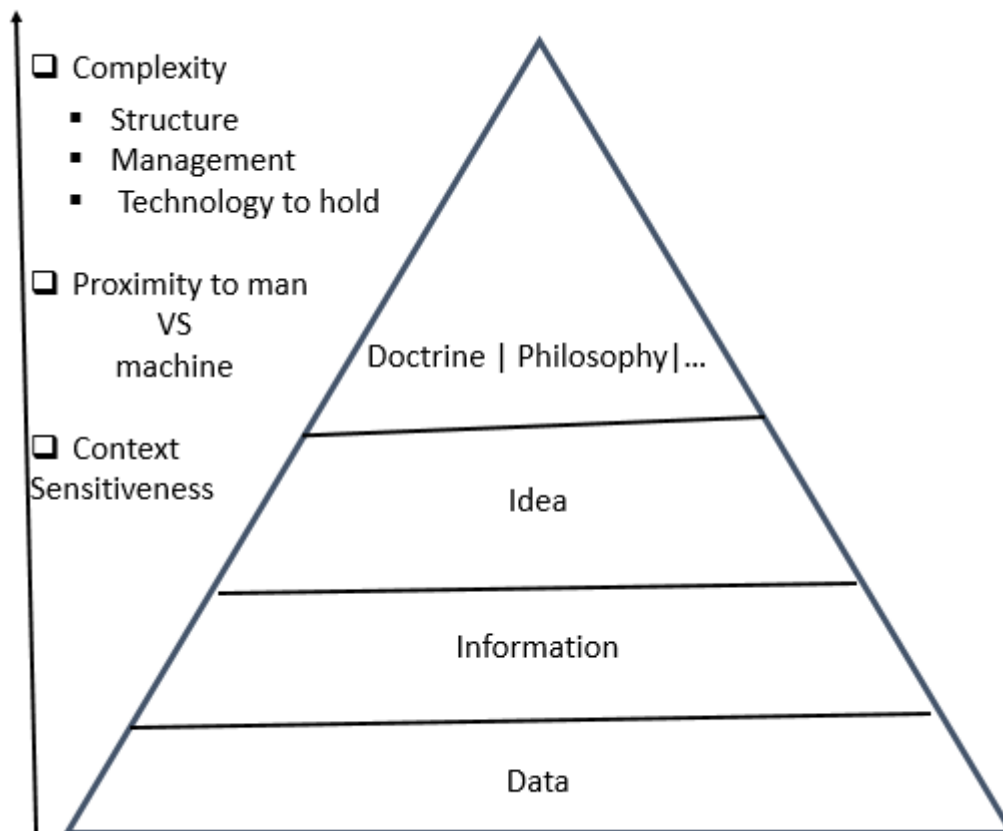


Figure 1 : Data, information and ideas hierarchical relationship

Doctrines, philosophies and other global thinks need more complex technical structures. This implies better management techniques and more sophisticated technologies. Ideas and doctrines are context sensitive although the information is too. They all are close to man.

IV. BID related technical researches :

different technical and design issues need to be considered to address the big ideas. Among these we mention:

1. Modeling big ideas
2. Architectures and Platforms for big ideas
3. Big idea representation and storage formats and among these standardized exchange ones
4. Big idea ontologies

5. Specialized developing tools for big ideas applications

V. Conclusion

In this paper, we introduce a new concept coined “Big Ideas” that will serve to extract, collect, filter, store, analyze and exchange the thoughts (ideas, opinions, views ...) of humans. It will help citizens from different countries of the world to express their opinion, ideas and thoughts about various topics that interest them. This allows them to participate actively in the general reflection on problems and solutions that interest them. This allows in the same way the countries and their governments to take advantage of the intelligence and the force of proposal of each citizen thus increasing the global power of thinking. This will strengthen the capacity of these countries to create new development projects in the future

REFERENCES

- [1] T Ram JIWAT, Zeyang (Leo) Zhang, Adopting big data analytics (BDA) in business-to-business (B2B) organizations – Development of a model of needs, *Journal of Engineering and Technology Management*, Volume 63, 2022, 101676, ISSN 0923-4748, <https://doi.org/10.1016/j.jengtecman.2022.101676>.
- [2] United Nations, Department of Economic and Social Affairs, Population Division (2019). *World Population Prospects 2019: Highlights* (ST/ESA/SER.A/423).
- [3] Olivier Pourquié, Katherine Brown, Future developments: your thoughts and our plans. *Development* (2016) 143 (1): 1–2. <https://doi.org/10.1242/dev.133355>
- [4] S. Papert What’s the big idea? Toward a pedagogy of idea power, *IBM SYSTEMS JOURNAL*, VOL 39, NOS 3&4, 2000
- [5] Dohn, Nina & Hansen, Stig & Klausen, Søren. (2018). On the Concept of Context. *Education Sciences*. 8(3). 111. DOI: 10.3390/educsci8030111.
- [6] T. Ben Hassine, O. Khayati and H. Ben Ghezala, "LIDO a modeling language for developing solutions for the internet of things," *Digital Tools & Uses Congress*, Paris, 3-5 October 2018.
- [7] Ben Hassine, Taoufik. (2022). A Language & an Approach for the Development of IoT Solutions. Vol. 6. 1-14. [10.11648/j.ajece.20220601.11](https://doi.org/10.11648/j.ajece.20220601.11).