

# E-RADICATE

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A Linked Open Data Platform to deal with Viruses and Outbreaks

### Short bio

- Academic background (University of Bologna)
  https://www.unibo.it/sitoweb/luca.roffia/en
  - 2001 Master Degree in Computer Science Engineering
  - 2005, PhD in Computer Science, Electronic and Telecommunication Engineering. Dissertation title: "Context Related Information Sharing and Retrieval in Mobile Cultural Heritage Applications"
  - Assistant Professor, Logic Design & Computer Architecture (School of Engineering), Department of Electrical, Electronic and Information Engineering "Guglielmo Marconi" (DEI)
- Research interests: Semantic Web, Linked Data, Web of Things, Interoperability
- □ Since **2011**, freelance consultant as software engineer
- 2020, Founder and President of VAIMEE (<a href="https://vaimee.com">https://vaimee.com</a>)

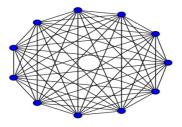


https://github.com/arces-wot/SEPA

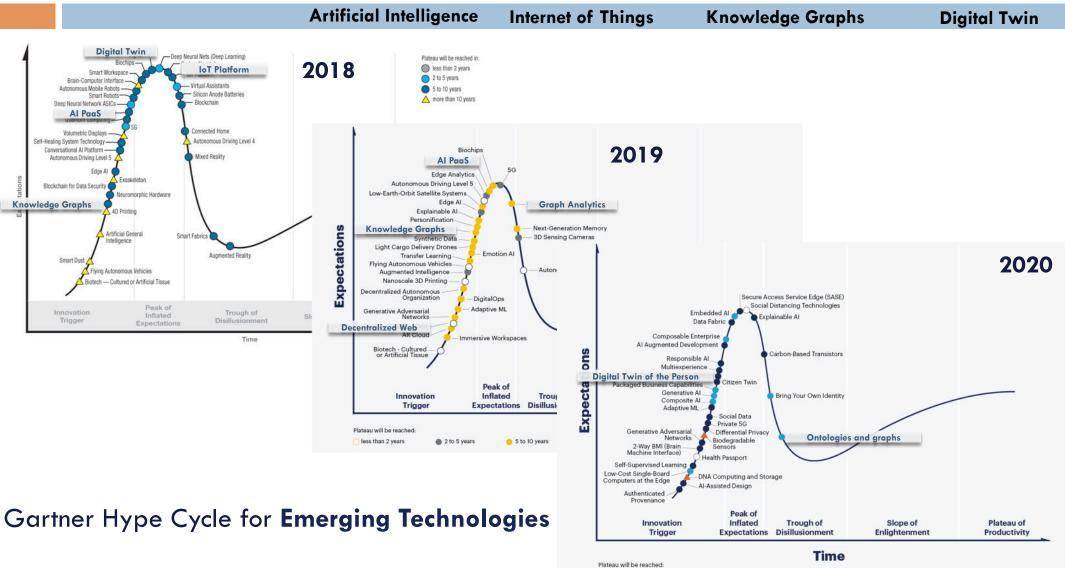
#### **VAIMEE Technologies**











2 to 5 years

O less than 2 years

6 5 to 10 years

▲ more than 10 years

O obsolete before plateau

As of July 2020

#### e-Radicate http://iosonopersia.altervista.org/covid19 **Business intelligence and** Developers, researchers, data analyst data analytics **Citizens Apache Superset** Web application SPARQL endpoint **Ontologies** SEPA **W3**C\* **GeoNames** SPARQL Event Processing Architecture SOSA Schema.org **RDF** Linked Open Data **SPARQL** QUDT.org **OWL RDF Data Cube Data producers EMERGENZA CORONAVIRUS**

https://aqicn.org/api/

http://dati.istat.it/

Presidenza del Consiglio dei Ministri Dipartimento della Protezione Civile

https://github.com/pcm-dpc/COVID-19

## Extend the platform at European level

- 1. A survey of the **ontologies** that could be adopted in the context of viruses and outbreaks
- 2. Extending the **data sources** (e.g., including data from EUROSTAT, European Data Portal, ECDC, WHO). Stakeholders who want to publish their own data, as Linked Open Data, are very welcome. The support of the EOSC communities in finding interesting data sources would also be very valuable. In general, data will be collected in the form of aggregated data and will not include personal data. The respect of GDPR will be in any case guaranteed
- 3. Implementing the **ETSI NGSI-LD** standard API [1] and data model [2] for context management
- 4. Creating new dashboards with Apache SuperSet [3]

<sup>[1]</sup> https://www.etsi.org/deliver/etsi\_gs/CIM/001\_099/009/01.01.01\_60/gs\_CIM009v010101p.pdf

<sup>[2]</sup> https://www.etsi.org/deliver/etsi\_gs/CIM/001\_099/006/01.01.01\_60/gs\_CIM006v010101p.pdf

<sup>[3]</sup> https://superset.incubator.apache.org/