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- OWL - Ontology Web Lang.
- QL - Query Language
- OWL-QL - QL for OWL
- SPARQL - QL for RDF
- SKOS - Simple Knowledge Organization System (RDF vocab)
- FOAF - Friend-of-a-Friend
- SWRL - Semantic Web Rules Lang.
- SUMO- Standard Upper Merged Ontology
- GEON - Geoscience Network (solid Earth)
- SWEET - Semantic Web for Earth and Environmental Terminology
- DL - Descriptions Logics
- RDF- Resource Description Framework
- XML - eXtensible Markup Language

Elements of the Hype Cycle - factors to consider in its development

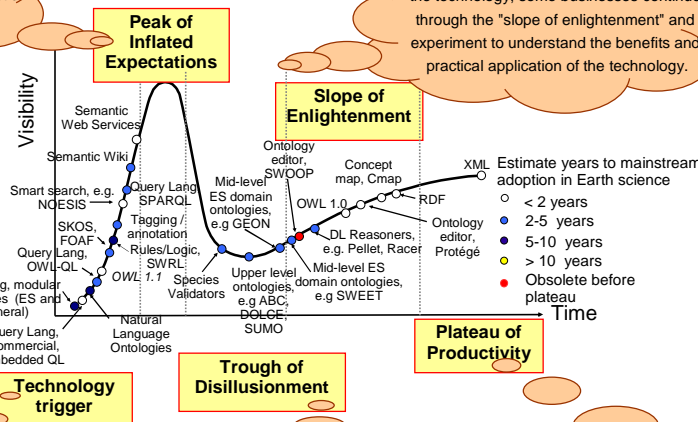
Maturity
Technical completeness / operational readiness
'Widespread' use in production applications

Visibility (examples)
References in conference presentations / papers
Number of press / journal articles
Inclusions in proposals for funding

Rate of progression
How to estimate projected rate of adoption?

Not Shown / Outside scope of hype cycle
Relevance/importance to Earth science community
How many places the technology is being used

In the next phase, a frenzy of publicity typically generates over-enthusiasm and unrealistic expectations. There may be some successful applications of a technology, but there are typically more failures.



Although the press may have stopped covering the technology, some businesses continue through the "slope of enlightenment" and experiment to understand the benefits and practical application of the technology.

- ❖ One of the new tools being utilized in the Earth Science Data Systems Technology Infusion working group, sub-group on Process and Strategies is the Gartner group's Hype Cycle for emerging technologies.
- ❖ Working in conjunction with the process and strategies group, the semantic web sub-group has developed a Hype Cycle for the semantic web as applied to Earth Science.
- ❖ The Hype Cycle is represented as a two-dimensional line graph with Time (maturity) on the horizontal axis and Visibility on the vertical axis.
- ❖ We introduce the Hype Cycle concept and elements, and discuss placement of semantic web technical components on the graph. Additionally, each element is color-coded as an estimate of time to maturity.
- ❖ This Hype Cycle for semantic web will be reviewed by knowledgeable, but non-semantic-web, experts.
- ❖ The intent for the Hype Cycle is to be used by prospective technology integrators to assess suitability and maturity of semantic web for their application(s).

And here

The first phase of a Hype Cycle is the "technology trigger" or breakthrough, product launch or other event that generates significant press and interest

Technologies enter the "trough of disillusionment" because they fail to meet expectations and quickly become unfashionable. Consequently, the press usually abandons the topic and the technology. Less visibility. More users.

A technology reaches the "plateau of productivity" as the benefits of it become widely demonstrated and accepted. The technology becomes increasingly stable and evolves in second and third generations. The final height of the plateau varies according to whether the technology is broadly applicable or benefits only a niche market.

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