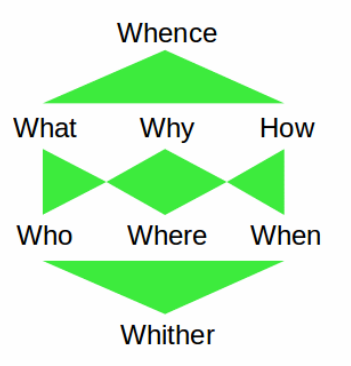




Synthesis III

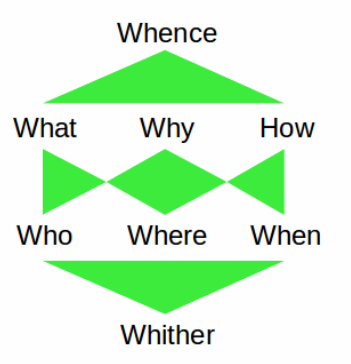
Kenneth Baclawski

10 June 2020



Outline

- Whence (2 sessions)
- What (all sessions)
- Why (3 sessions)
- How (5 sessions)
- Use Cases (4 sessions)
- Whither (3 sessions and 10 panelists)
- Overview/Synthesis

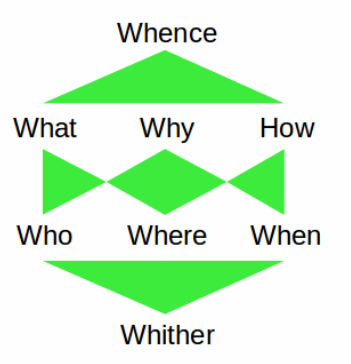


Whence

- 5 February 2020 **Chaitanya Baru** *The NSF Convergence Accelerator Pilot: Track A – Open Knowledge Network* (<https://go.aws/31rSjbe>)
- 12 February 2020 **John Sowa** *Knowledge Graphs for Language, Logic, Data, Reasoning* (<https://go.aws/2SkRNc3>)

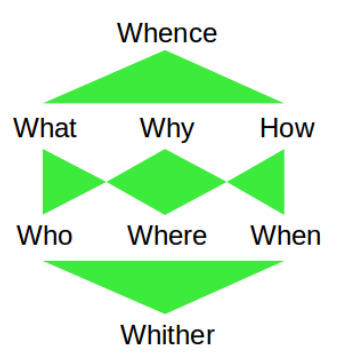
Excerpt from Chaitanya Baru

- Convergence Accelerator Track A Open Knowledge Network
 - Responds to the need identified in the NSF Harnessing the Data Revolution Big Idea for:
 - An advanced science data infrastructure that is interoperable and has an open architecture, making it easier to access and link heterogeneous data products
 - An open semantic information infrastructure to discover new knowledge from multiple disparate knowledge sources
 - A nonproprietary shared knowledge infrastructure, with a particular focus on publicly available data, e.g., U.S. Government, scientific data, and other similar public datasets.
- Benefits multiple applications domains, including science and engineering research



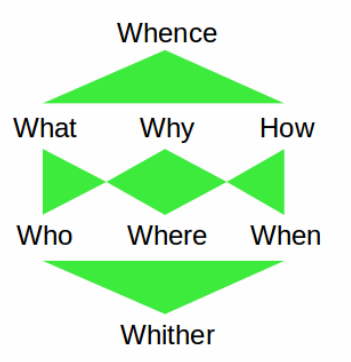
Why

- 04 September 2019 **Jans Aasman** *Why Knowledge Graphs Hit the Hype Cycle and What they have in common* (<http://bit.ly/34jSImJ>)
- 19 February 2020 **Matthew West** *From Data to Business Value* (<https://go.aws/2HdGBYr>)
- 6 May 2020 **Ernest Davis** *Time and Space in Knowledge Graphs* (<https://go.aws/2SxOVZ9>)



How

- 26 February 2020 **Anirudh Prabhu** *Insights from Knowledge Graphs* (<https://go.aws/3a9Niax>)
- 04 March 2020 **Paco Nathan** *Rich Context: Rich Search and Discovery for Scholarly Databases* (<https://go.aws/2TwytYO>)
- 11 March 2020 **Hari Srihari** *Probabilistic Knowledge Graphs* (<https://go.aws/2TL6lgB>)
- 18 March 2020 **Spencer Breiner** *Composing knowledge graphs: inside and out* (<https://go.aws/2QfatbQ>)
- 29 April 2020 **Krzysztof Janowicz** *KnowWhereGraph: Enriching and Linking Cross-Domain Knowledge Graphs using Spatially-Explicit AI Technologies to Address Pressing Challenges at the Human-Environment Nexus* (<https://go.aws/2xmMSQd>)

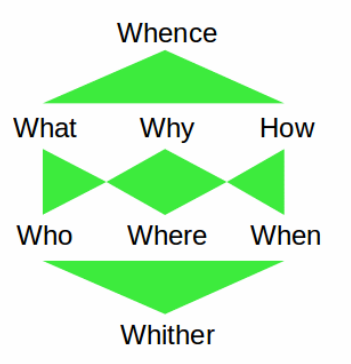


Use Cases

- 8 April 2020 **Binil Starly** *Building an Open Knowledge Network (OKN) Graph in Product Design & Manufacturing* (<https://go.aws/2Xna2Ay>)
- 15 April 2020 **Michael Uschold** *Knowledge Graphs in Industry: Examples and Lessons Learned* (<https://go.aws/3aeCVBP>)
- 22 April 2020 **Sean Gordon** *Prototyping an Open Knowledge Network for Spatial Decision Support* (<http://bit.ly/2Kquljr>)
- 27 May 2020 **Yolanda Gil** *Seven Ontologies for Publishing the Scientific Record on the Web* (<https://go.aws/2yHUuO4>)

Whither Part 1

- 13 May 2020
 - **Ram D. Sriram** *Introduction* (<https://go.aws/2WUGVCK>)
 - **John Sowa** *Knowledge Graphs & Logic* (<https://go.aws/2LkvpeN>)
 - **Elisa Kendall** *OMG Efforts Toward Developing Standards for KGs* (<https://go.aws/3fISLc0>)
 - **Mike Bennett** *Standards for KGs in the Financial Sector* (<https://go.aws/2YXCdXw>)
 - **Andreas Blumauer** *The Semantic Web and Standards for KGs* (<https://go.aws/2T1CLbo>)



Whither Part 2

- 20 May 2020
 - **Vinay K. Chaudhri** *Textbook Open Knowledge Network* (<https://go.aws/3cJZWhW>)
- 3 June 2020
 - **Lisa Carnahan** *The IT Standards Process* (<https://go.aws/3gPkyYK>)
 - **Barry Smith** *ISO/IEC 21838* (<https://go.aws/2zY2Otx>)
 - **Michael Grüninger** *Standards and Ontologies* (<https://go.aws/2AykuMf>)

Overview and Synthesis Sessions

- 04 September 2019 **Ken Baclawski** *Welcome and Introductory Remarks* (<http://bit.ly/34ITYQF>)
- 11 September 2019 **John Sowa** *Knowledge Graphs: Past, Present, Future* (<http://bit.ly/34DyeQi>)
- 29 January 2020 *Introduction and Overview by the Organizing Committee* (<https://go.aws/38Sv50z>)
- 1 April 2020 **Ken Baclawski** *Second Synthesis Session Summary* (<http://go.aws/340zT2y>)
- 1 April 2020 **Ravi Sharma** *What is a Knowledge Graph?* (<http://go.aws/3bMRCgJ>)

Tasks

- Organization
 - Structure (by tracks?)
 - Meetings?
- Communiqué Development
 - Currently scheduled for 17 and 24 June