

CURRICULUM VITAE

May 19, 2024

I. PERSONAL INFORMATION

Name | Fredrik Svahn

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www http://www.fredriksvahn.se

http://www.linkedin.com/in/fresva

Nationality | Swedish

Date of birth | Feb 23, 1972

Gender | Male

II. DEGREES

2012 PhD Informatics, Umeå University, Umeå, Sweden

1996 MSc Applied Physics and Electrical Engineering, Linköping

Institute of Technology, Linköping, Sweden

III. POSITIONS	
Dec 2017-	University of Gothenburg, Gothenburg, Sweden.
	Associate Professor
2016-	Sangigi AB, Frillesås, Sweden.
	• Owner
2014-2017	<i>University of Gothenburg</i>, Gothenburg, Sweden.Assistant Professor
2014	 Penn State University, PA, USA. Visiting Researcher, College of Information Sciences and Technology (Apr-June).
2012-2014	 Chalmers University of Technology, Gothenburg. Postdoctoral Research Associate (Oct 2012-Sep 2014).
2007-2014	 Viktoria Swedish ICT (form. Viktoria Institute), Gothenburg Senior Researcher (2012-). Research Manager, Open Vehicle (2011-2012). Researcher (2007-2011).
2011-2012	Umeå University, Umeå.PhD Candidate.
2010	 Georgia State University, Atlanta, GA, USA Visiting Researcher, Center for Process Innovation (Sep-Oct).
2009-2011	 Jönköping International Business School, Jönköping. PhD Candidate.
2006	Evidente AB, Gothenburg.Telematics Consultant.
2000-2006	 Guide Konsult AB, Gothenburg. IT Consultant, Volvo Car Corporation (2001-2005). IT Consultant, Ericsson Microwave Systems (2001). IT Consultant, Mitsubishi Electric (2000-2001).
1997-2000	 Saab Dynamics AB, Linköping. Systems Engineer, section for operational analysis (1999-2000). Systems Engineer, section for airborne navigation systems (1997-1999).
IV. RESEARCH PROJECTS	
2024-2027	<i>Urban Twin Transition Center</i> , a national initiative, funded by VINNOVA, for scaling net-zero solutions through twin transition.
2024	The Impact of Generative AI on Organizational Dynamics and Work Environment , a research project with Ericsson, funded by Software Center.
2022-2025	BIOPATH, a research program, funded by Mistra, with a vision to turn the financial system into an important driver for

halting and reversing the loss of biodiversity. Supply-Side Strategies for Dealing with Digital Disruption: 2018-2022 Methods and Tools for Digital Resourcing, a project funded by the Wallenberg Foundation, addressing disruption through informed management of digital resources - digital resourcing. 2019-2021 Digital Transformation of the Swedish Forest Industry, a project funded by Stiftelsen Seydlitz MP-bolagen, addressing the organizational challenges of digitalization in the forest industry. 2018 Mapping Ecosystems for Digital Capability, a project with the forest industry. The project will map, describe, and visualize innovation ecosystems and subsequently develop feasible strategies for exploiting them in platform business models. 2013-2016 **Safe Interaction, Connectivity and State (SICS)**, a research project with the objective to design, develop, and evaluate a connectivity platform which balances fundamental safety concerns towards business prosperity. Volvo AB, Volvo Car Corporation, HiQ, and Chalmers. 2013 **Second Road**, a project aiming for collaborative work practices in modeling and simulation. In particular, it explored how the concept of peer-production can be applied to an automotive context. Volvo Car Corporation and Viktoria Swedish ICT. 2011-2012 *Planning for a Connected Future*, an action research project on strategic planning of connected cars. The project applied scenario planning methodology to identify future developments and trigger new strategic thinking. Volvo Car Corporation and Viktoria Insitute. *Open Design Infrastructures*, a collaborative research 2010-2012 project aiming to develop new platform concepts and harmonizing governance strategies, helping the automotive industry to develop an open innovation agenda in the area of vehicle infotainment. Volvo Car Corporation, HiQ, and Viktoria Institute. 2011 **API Federation**, a project exploring the concept of federation as a basis for increasingly heterogeneous innovation ecosystems, gravitating around shared information rather than a shared platform. Lindholmen Science Park, Saab Automobile, CyberCom, and Viktoria Institute. *Open Source Business Models*, a research project seeking to 2009-2010 develop a new technology management strategy, recognizing the new challenges of open innovation. In particular, it centered on (1) the identification and appropriation of principles for external developer communities and (2) an

2008-2009 *Flex HMI Architecture*, a project focusing on the development of in-car software architecture, handling the trends of centralization, differentiation, and scalability in a concerted

Mecel, Viktoria Institute.

updated infotainment platform strategy. Saab Automobile,

way. Saab Automobile and Viktoria Institute.

2007 *Open Platform for Nomadic Devices*, an industry-wide research project aiming to develop a strategy and open hardware-software architecture for handling all sort of peripheral devices that increasingly pervade people's lives. Saab Automobile, Volvo Technology, Scania, Appello, CyberCom, Sony Ericsson, and Viktoria Institute.

V. INDUSTRIAL ASSIGNMENTS		
2016	Support in development of digital business strategy. Hosting and moderation of workshops for mapping of business ecosystem. Sydved AB.	
2006	Business and Process Review. Evidente.	
2005	<i>Task leader, Connected Safety & Service</i> . Advanced engineering project, reviewing technology, user value and business potential in the context of connected cars. Volvo Car Corporation.	
2005	Technical purchasing support, next generation common Infotainment head units in Premium Automotive Group. RFI/RFQ design and quotation reviewing. Volvo Car Corporation.	
2005	Strategy development, in-car navigation. Preparation of generic, long-term strategy for Volvo's Road & Traffic Information. Volvo Car Corporation.	
2005	<i>Technical analyst, dead reckoning.</i> Performance analysis for Volvo on Call. Volvo Car Corporation.	
2004	Function area leader, in-car navigation. Volvo Car Corporation.	
2003	Researcher , navigation system usage. End-user survey of different driving contexts. A project implemented as joint study between Volvo Car Corporation, Viktoria Institute and Guide Konsult.	
2003	Test Engineer, GPS performance benchmarking . Comparative study of two competing solutions, from two different suppliers. Volvo Car Corporation.	
2003	Software manager, Volvo Road and Traffic Information. New product development for the S40/V50 cars. Volvo Car Corporation.	
2002	Software manager, multimedia module. New product development for the XC90 car. Volvo Car Corporation.	
2001	<i>Task leader, Volvo Road and Traffic information.</i> Facelift for the MY 2002 of S60, V70 and S80 cars. Volvo Car Corporation.	
2001	Team leader, UMTS hardware design . Responsibility for downlink signal processing in 3rd generation mobile base stations for Japanese DoCoMo. Ericsson Microwave Systems.	
2000	<i>Systems engineer, automotive navigation</i> . Systems analysis, specification and field testing. Mitsubishi Electric Automotive	

Europe.

2000 **Research assistant, Bayesian target tracking.** A project studying nonlinear, model based signal processing in target tracking application using infrared sensors. Research project funded by the Swedish Defense Material Administration. Saab

Dynamics, section for operational analysis.

Technical sales support, naval tactics simulators. Concept 1998-1999

> studies, system specification, quotations, customer negotiations, customer support. Saab Dynamics, section for

operational analysis.

1997-1998 Systems engineer, terrain referenced navigation.

> Subsystem leader for JAS39 Gripen. Algorithm development, program implementation, testing and systems integration. Saab Dynamics, section for airborne navigation systems.

2023 Svahn, F., and Kristensson, M. 2023. "Unpacking Digital Options Thinking for Innovation Renewal: A Clinical Inquiry into Car Connectivity," European Journal of Information Systems (32:1), pp. 23-34.

> Mankevich, V., Magnusson, I., and Svahn, F. 2023. "The Great Wave: The Increasing Demand for Digital Competence within the Public Sector," Information Polity (28), pp. 411-434.

2021 Svahn, F., and Bygstad, B. 2021. "Managing the Paradoxes of Digital Product Innovation," in Management and Information Technology after Digital Transformation, P. Ekman, P. Dahlin and C. Keller (eds.). Routledge, pp. 105-118.

> Mankevich, V., and Svahn, F. 2021. "Resourcing Digital Competence in Product Development," HICSS 54.

Ivarsson, F., and Svahn, F. 2020. "Becoming a Digital 2020 Ecosystem Orchestrator: The Sydved Case," ECIS 2020, Marrakech, Morocco.

> Ivarsson, F., and Svahn, F. 2020. "Digital and Conventional Matchmaking-Similarities, Differences and Tensions," HICSS

2017 Svahn, F., Mathiassen, L., Lindgren, R., and Kane, G. 2017. "Mastering the Digital Innovation Challenge," MIT Sloan Management Review (58:3), pp. 14-16.

> Svahn, F., Mathiassen, L., and Lindgren, R. 2017. "Embracing Digital Innovation in Incumbent Firms: How Volvo Cars Managed Competing Concerns," MIS Quarterly. (41:1), pp. 239-253.

Leijon, E., Svenheden, I., and Svahn, F. 2017, "Platform Thinking in Incumbent Firms: From Concept to Capability," HICSS-50, Hilton Waikoloa, Hawaii, USA.

2016 Mohagheghzadeh, A., Svahn, F. 2016 "Shifting Design Capability to Third-Party Developers: An Affordance Perspective on Platform Boundary Resources", AMCIS, San Diego, USA.

VI. PUBLICATIONS

Mohagheghzadeh, A., Svahn, F. 2016 "Transforming Organizational Resources into Platform Boundary Resources", ECIS, Istanbul, Turkey.

2015 Mohagheghzadeh, A., Svahn, F. 2015 "Resource Transformation in Platform Envelopment", ECIS, Münster, Germany.

Svahn, F., Lindgren, R., Mathiassen, L. 2015. "Applying Options Thinking to Shape Generativity in Digital Innovation: An Action Research into Connected Cars", *HICSS-48*, Grand Hyatt, Kauai, USA.

- Henfridsson, O., Mathiassen, L., Svahn, F. 2014. "Managing Technological Change in the Digital Age: The Role of Architectural Frames", *Journal of Information Technology* (29:1).
- Selander, L., Henfridsson, O., Svahn, F. 2013. "Capability Search and Redeem Across Digital Ecosystems," *Journal of Information Technology* (28:3).
- 2012 Svahn, F. 2012. "Digital Product Innovation: Building Generative Capability through Architectural Frames", PhD Thesis, Umeå University.

Svahn, F. and Henfridsson, O. 2012. "The Dual Regimes of Digital Innovation Management", *HICSS-45*, Grand Wailea, Maui, USA.

- 2010 Selander, L., Henfridsson, O., and Svahn, F. 2010.
 "Transforming Ecosystem Relationships in Digital
 Innovation," *Int. Conf. on Information Systems*, Saint Louis,
 USA.
- 2009 Svahn, F., Henfridsson, O., and Yoo, Y. 2009. "A Threesome Dance of Agency: Mangling the Sociomateriality of Technological Regimes in Digital Innovation," *Int. Conf. on Information Systems*, Phoenix, USA.

Svahn, F., and Henfridsson, O. 2009. "Situated Knowledge in Context-Aware Computing: A Sequential Multimethod Study of in-Car Navigation," *International Journal of Advanced Pervasive and Ubiquitous Computing* (1:3).

Svahn, F. 2009. "The Sociomateriality of Competing Technological Regimes in Digital Innovation," in: *Selected Papers of the 32nd Iris Seminar*, J. Molka-Danielsen (ed.). Tapir Academic Press, Trondheim, Norway.

Svahn, F. 2009. "The Sociomateriality of Competing Technological Regimes in Digital Innovation," in: *Proceedings of the 32nd Information Systems Research Seminar in Scandinavia*. Molde, Norway.

Henfridsson, O., Yoo, Y., and Svahn, F. 2009. "Path Creation in Digital Innovation: A Multi-Layered Dialectics Perspective," *Sprouts Working Papers on Informations Systems* (9:20).

Henfridsson, O., Mathiassen, L., and Svahn, F. 2009. "Reconfiguring Modularity: Closing Capability Gaps in Digital Innovation," *Sprouts Working Papers on Informations Systems* (9:22).

2004 Svahn, F. 2004. "In-Car Navigation Usage: An End-User Survey on Existing Systems," in: *Proceedings of the 27th Information Systems Research Seminar in Scandinavia*. Falkenberg, Sweden.

Henfridsson, O., Holmström, H., Lindgren, R., Olsson, C.M., and Svahn, F. 2003. "Framtidens Fordon - Mötet Mellan Två Mobila Världar," The Swedish Agency for Innovation Systems.

1996 Svahn, F. 1996. "Tools and Methods to Obtain a Passive Autofocus System," Master Thesis. *Department of Electrical Engineering*, Linköping University, Sweden.

VII.TEACHING

Program Management:

Program Director, <u>Master's program in Digital Leadership</u>, 2017-2022

Program Development:

Master's program in Digital Leadership, creation (2016-2017) and revision (2020-2021).

Courses developed and taught:

TIA301 Technology, 2021-

TIA312 Methods, 2022-

IT00006 Frontiers in Digital Innovation Research, PhD course, 2020-

TIG311 Samhällets Digitalisering (with L. Selander), 2020.

TIA010 Innovation Strategy for the Digital Economy: Organizations, Markets, and Technologies, 2014-2019.

TIA019 Master Thesis in Informatics (revised with D. Koutsikouri), 2017 and 2019.

TIA043 Innovation and Entrepreneurship (with J. Ljungberg), 2013

Commissioned education:

Platform Strategies and Digital Innovation, Executive MBA, GU School of Executive Education AB, 2017-

Digital Leadership, Chalmers Professional Education, Aug 2016.

Peer-production, Volvo Car Corporation, Sep 2013.

Two-sided Markets and Network Effects, Volvo Car Corporation, Sep 2011.

Platforms, Volvo Car Corporation, Sep 2011.

Open Innovation, Volvo Car Corporation, Aug 2011.

Product Differentiation (with L. Hylving), Saab Automobile, April 2008.

Open Innovation, Saab Automobile, April 2008.

Pedagogical courses taken:

HPE101 Teaching and Learning in Higher Education, 5 hec.

HPE102 Teaching and Learning in Higher Education 2: Subject Field Pedagogy, 5 hec.

PIL103 Teaching and Learning in Higher Education 3: Applied Analysis

HPE201 Supervision in Postgraduate Programmes, 5hec.

VIII. SERVICE

Reviewing for Scholarly Journals:

MIS Quarterly (MISQ)

Information Systems Research (ISR)

Journal of Information Technology (JIT)

European Journal of Information Systems (EJIS)

Journal of Strategic Information Systems (JSIS)

Journal of AIS (JAIS)

Research Policy (RP)

International Journal of Management Reviews (IJMR)

Journal of Product Innovation Management (JPIM)

Technovation

MIT Sloan Management Review

IT & People (ITP)

Applied Economic Letters (AEL)

IEEE Transactions on Systems, Man & Cybernetics (IEEE SMC)

Reviewing for International Conferences:

International Conference on Information Systems (ICIS)

European Conference on Information Systems (ECIS)

Hawaii International Conference on System Sciences (HICSS)

Mediterranean Conference on Information Systems (MCIS)

Information Systems Research in Scandinavia (IRIS)

International Federation for Information Processing, Working Group 8.2 (IFIP 8.2)

IEEE Vehicular Technology Society Conference (IEEE VTC)

Roles in International Conferences:

Session Chair, Design Science in Action, ICIS 2012.

Program Committee, IFIP Working Group 8.2 Working Conference, Auckland, 2014.

Panel, Automated Driving Systems as a New Frontier for Information Systems Research, ICIS 2022, Copenhagen

Editorial Work:

Associate Editor, European Conference on Information Systems (ECIS), 2015, 2016, and 2020.

Associate Editor, International Conference on Information Systems (ICIS), 2020-2022.

Opponent/Discussant Assignments:

Adrian Bumann, "Generating Architectural Knowledge in Digital Innovation Networks", Final seminar, Chalmers, March 2024

Kristian Norling, "Dialogue in digital transformation strategizing", Mid-term evaluation, University of Gothenburg, Oct 2022.

Daniel Svensrud, "Orchestration of and in B2B Ecosystems", Mid-term evaluation, University of Oslo, Nov 2021.

Hosea Ofe, "Establishment of Digital Platform Ecosystems: Navigating tensions in the Formative Stages of Metaorganizations", Final seminar, Umeå University, Sep 2019.

Michael Kizito, "Rethinking IT Governance: A study of digital resource orchestration in healthcare organizations", Mid-term evaluation, University of Gothenburg, Nov 2018.

Michael Yousif, "Shaping Digital Capabilities for Competitive Actions: Concept and Operationalization", Proposal, University of Gothenburg, May 2017.

Asif Akram, "Value Network Transformation: Digital Service Innovation in the Vehicle Industry", Final seminar, Halmstad University, Nov 2015.

Asma Rafiq, "Boundary Resources Theory from Third Party Developers' Perspective", Mid-term evaluation, Uppsala University, Oct 2015.

Esbjörn Ebbesson, "The Role of Social Software in Co-Creation of Value", Mid-term evaluation, Halmstad University, Nov 2013.

Grading Committee Assignments:

Thomas Haskamp, "Products Design Organizations: How Industrial-Aged Companies Accomplish Digital Product Innovation", Universität Potsdam, April 2024.

Erdelina Kurti, "Institutional Tensions and Complexity in the Digital

University, Nov 2020.

Positions of Trust:

Faculty board, IT Faculty, University of Gothenburg, 2023-

- 1. IT Faculty pedagogical prize for new and experiment use of AI technologies in teaching, 2024.
- 2. European Research Paper of the Year, runner-up (with L. Mathiassen and R. Lindgren), CIONET, 2018.
- 3. Diploma for outstanding doctoral thesis in information systems 2012. Svenska Informationssystem Akademin (SISA), 2012.
- 4. Best theme paper award (with L. Selander and O. Henfridsson) at the International Conference on Information Systems (ICIS), 2010.
- 5. Best paper award at Information Systems Research in Scandinavia (IRIS), 2009.

X. FUNDRAISING

- 1. The Impact of Generative AI on Organizational Dynamics and Work Environment (with N. B. Lindström and A. Asatiani), Software Center, 778kSEK.
- 2. Digital Transformation of the Swedish Forest Industry, Stiftelsen Seydlitz MP-bolagen, 3000 kSEK
- 3. Mapping Ecosystems for Digital Capability, Stiftelsen Seydlitz MP bolagen, 1000 kSEK.
- 4. Supply-Side Strategies for Dealing with Digital Disruption Methods and Tools for Digital Resourcing, Marianne och Marcus Wallenbergs stiftelse, 4210 kSEK.
- 5. Safe Interaction, Connectivity and State (SICS) (with O. Henfridsson), VINNOVA's program for Strategic Vehicle Research and Innovation (FFI), 2400 kSEK.
- 6. Environmental Friendly Efficient Enjoyable and Safety Optimized Systems (EFESOS) (with L. Hylving), VINNOVA's program for Strategic Vehicle Research and Innovation (FFI), 3400 kSEK.
- 7. API Federation (with L. Selander), InMotion (Västra Götalandsregionen), 650 kSEK.
- 8. PreACT (with C. Grante), SAFER (Chalmers) 100 kSEK.
- 9. Open Source Business Models, Technical Concept (with O. Henfridsson), General Motors, 1200 kSEK
- 10. Open Source Business Models (with O. Henfridsson), Saab Automobile, 475 kSEK.
- 11. Flexible HMI Architecture (with O. Henfridsson and L. Hylving) VINNOVA's Vehicle ICT program, 3750 kSEK.
- 12. Open Platform for Nomadic Devices (with O. Henfridsson). VINNOVA's Vehicle ICT program, 1200 kSEK.

XI. PRESENTATIONS

Selected presentations from public conferences and industry collaboration arenas:

- 1. *Digital Innovation as Pockets of Discursive Coherence.* At Hasso Plattner Institute, Potsdam, April 2024.
- 2. Decoding the Discourse: Biodiversity in the Financial Ecosystem. At the Mistra BIOPATH spring converence, April 2024.
- 3. *AI in Teaching and Learning.* Pedagogical seminar at University of Gothenburg, Dec 2023.
- 4. *Strategizing and Digital Options Thinking.* At Setterwalls Advokatbyrå, May 2023.
- 5. *Mapping Discourse using Natural Language Processing.* At Gothenburg School of Business, Economics and Law, Apr 2023
- 6. Lexical Framing: The Process of Surfacing Increasingly
 Meaningful Patterns. PhD seminar at Stockholm School of
 Economics, Feb 2023
- 7. Automated Driving Systems as a New Frontier for Information Systems Research. Panel at ICIS, Dec 2022
- 8. *Mapping Discourse in Search for Digital Competence.* At Volvo Group, Sep 2022
- 9. Unpacking Digital Options Thinking for Innovation Renewal: A Clinical Inquiry into Car Connectivity. At University of Oslo, Sep 2022.
- 10. *Mapping Ecosystems: A Method for Morphological Exploration.*At the Platforms and Ecosystem Strategy Seminar, Digitala Stambanan, Oct 2020.
- 11. *The 'Zero-Marginal Business': Examples and Reflections.* At Sydved AB, 2020.
- 12. MakerSpace Oceanum: Building a Collaborative Innovation Environments for Learning, Exploring and Sharing through Open Ocean Data. At Swedish Centre for Ocean Observing Technology, March 2019
- 13. *A Method for Morphological Exploration of Ecosystems.* At Combitech TechFast, Nov 2018.
- 14. *Embracing Digital Innovation in Incumbent Firm.* At CIONext, Brussels, June 2018.
- 15. *Digital Competence*. At Business Region Gothenburg, Apr 2017.
- 16. | *Platforms and Digitalization.* At Sydved, Aug 2016.
- 17. Embracing Digital Innovation in Incumbent Firms. At Umeå University, May 2016.
- 18. *Embracing Digital Innovation in Incumbent Firms.* At MITSC, Mar 2016.
- 19. *Embracing Digital Innovation: How Volvo Cars Maneuvered Competing Concerns.* At Halmstad University, Jan 2016.
- 20. Embracing Digital Innovation: Strategy Practices in Volvo's Connected Car Initiative. At MIS Quarterly special issue workshop, Los Angeles, Feb 2015.

- 21. Embracing the Digital. At Setterwalls Advokatbyrå, Feb 2015.
- 22. Applying Options Thinking to Shape Generativity in Digital Innovation: An Action Research into Connected Cars. At Hawaii International Conference on System Sciences (HICSS), Jan 2015.
- 23. *Growing Hybrid Platforms: The Complexities of Design and Governance.* At the Center for Research Design and Innovation, Penn State University, June 2014.
- 24. *Digital Product Innovation*. Presentation of PhD Thesis at the annual SISA conference, May 2013.
- 25. *Open Innovation: What is it? Do we need it?* How do we apply it? At Viktoria Forum, Dec 2012.
- 26. *How do we Architect for Open Innovation?* At Framtidens Uppkopplade Fordon (Informa IBC), Oct 2012.
- 27. | *Platform Economics.* At Vehicle ICT Forum, June 2012.
- 28. *Open Innovation Architecture.* At Vehicle ICT Forum, May 2012.
- 29. The Dual Regimes of Digital Innovation Management. At Hawaii International Conference on System Sciences (HICSS), Jan 2012.
- 30. *Planning for a Connected Future.* At Volvo Car Corporation, December 2011.
- 31. *Three Challenges in Digital Product Innovation.* At Framtidens Uppkopplade Fordon (Informa IBC), April 2011.
- 32. *Transforming Ecosystem Relationships in Digital Innovation.* At the International Conference on Information Systems (ICIS), December 2010.
- 33. *Open Design Infrastructures in Digital Product Innovation.* Keynote at SmartVision 2010, Kajaani, Finland.
- 34. A Threesome Dance of Agency: Mangling the Sociomateriality of Technological Regimes in Digital Innovation. At the International Conference on Information Systems (ICIS), December 2009.
- 35. The Sociomateriality of Competing Technological Regimes in Digital Innovation. At Information Systems Research in Scandinavia (IRIS), Aug 2009.
- 36. *Openness: Curse or Blessing?* At GREAT seminar, May 2008.
- 37. Infotainment i fordon: En pågående resa från autonomi till integration. At Framtidens Uppkopplade Fordon (Informa IBC), April 2006.

XII. STUDENT SUPERVISION

Amir Mohagheghzadeh, Ph.D. (Informatics, Gothenburg University), anticipated 2024.

Frida Magnusdotter Ivarsson, Ph.D. (Informatics, University of Gothenburg), graduated 2023.