



## **CURRICULUM VITAE (short version)**

### **Hans Löfsten, Professor (Chair)**

Professor, *Chair of Engineering Economic Analysis* (Teknikens ekonomiska analys), Chalmers University of Technology, Department of Technology Management and Economics, Division of Operations Management.

### **Employments and Education**

| <b>Period</b> | <b>Employments/positions</b>  | <b>Research area</b>                |
|---------------|-------------------------------|-------------------------------------|
| 2007-         | Professor (Chair)             | Engineering Economic Analysis       |
| 2005-2006     | Professor (bitr professor)    | Technology Management               |
| 1999-2004     | Associate Professor           | Technology Management               |
| 1996-1999     | University lecturer           | Industrial Management and Economics |
| 1996          | Assistant Professor           | Industrial Management and Economics |
| 1993-1996     | University Lecturer           | Business Administration             |
| 1992-1993     | Assistant Professor           | Business Administration             |
| 1991-1992     | Ph D-candidate position       | Business Administration             |
| 1988-1991     | Ph D-cand, Research Assistant | Business Administration             |

### Present Employments

| <i>Period</i> | <i>Position</i>                                   | <i>Organisation</i>   |
|---------------|---|---|
| 2007-         | Professor, Chair of Engineering Economic Analysis | Chalmers University of Technology, Department of Technology Management and Economics, Division of Operations Management |
| 2006-         | Research Group Leader                             | Chalmers, Operations Management (Engineering Economic analysis)   |
| 1998-         | Research Group Leader                             | IMIT (Institute for Management of Innovation and Technology)  |
| 1999-         | Research Fellow                                   |   |

### Earlier Employments

| <i>Period</i> | <i>Position</i>                                    | <i>Organisation</i>  |
|---------------|--|--|
| 2005-2006     | Professor (bitr professor)                         | Chalmers University of Technology, Department of Technology Management and Economics |
| 2005-2006     | Head of Divison                                    | Chalmers University of Technology<br>Department of Industrial dynamics               |
| 2003-2004     | Head of Department (Prefekt)                       | Chalmers, Industrial dynamics  |
| 1999-2004     | Docent (Associate Professor)                       | Chalmers University of Technology, Department of Industrial Dynamics                 |
| 2000          | Deputy Head of Department (Viceprefekt)            | Chalmers University of Technology, Department of Industrial Dynamics                 |
| 1997-1998     | University Lecturer                                | Chalmers University of Technology, Department of Industrial dynamics                 |
| 1996          | Assistant Professor                                | Department of Industrial Management and Economics                                    |
| 1995-1996     | Deputy Head of Programme/<br>Research Group Leader | GRI (Gothenburg Research Institute)  |

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|-----------|--|--|
| 1993-1996 | Researcher, Univ. Lecturer                       | School of Business, Economics and Law, Göteborg University, Dept. of Business Administration |
| 1992-1994 | Researcher, Project Leader,                      | School of Business, Economics and Law, Göteborg University                                   |
| 1992-1993 | Assistant Professor                              | School of Business, Economics and Law, Göteborg University                                   |
| 1991-1992 | Post-Graduate Research Position (Ph D-candidate) | School of Business, Economics and Law, Göteborg University                                   |
| 1988-1991 | Research Assistant                               | School of Business, Economics and Law, Göteborg University                                   |

### **Academic appointments and degrees**

- 2007 Professor (Chair) in Engineering Economic Analysis, Department of Technology Management and Economics, Chalmers University of Technology.
- 2005 Professor in Technology Management, Department of Technology Management and Economics, Chalmers University of Technology
- 2004 Declared competent (ranked nr 1) for a full Professorship (Lindéns professorship, chair) in Industrial analysis, Business administration, School of Economics and Management, Lund University. I declined the offer to accept that position.
- 1999 Docent (Associate Professor) in Technology Management, Chalmers University of Technology, School of Technology Management and Economics, Department of Industrial Dynamics.
- 1999 Research Fellow (IMIT, Institute for Management of Innovation and Technology), member of IMIT-Faculty.
- 1992 Doctor of Economics (Ph D) in Business Administration, School of Business, Economics and Law, Göteborg University, Department of Business Administration.
- 1988 Bachelor of Science in Business Administration, (civilekonom), Specialized Program: Managerial Economics, School of Business, Economics and Law, Göteborg University, Department of Business Administration.

## Military Service

1982-1983 15 months at I15 in Borås, Sweden of which 3 months at Military Academy I17 in Uddevalla (Second Lieutenant, Conscript Officer). Civil excellence with regard to leadership, principles of management, planning and co-ordination of activities and leadership education with regard to rapid assessment of situations.

## Publications (selected)

### Books – monographs (as single author)

**A1.** Löfsten, H., 1992, *Underhåll av kommunal infrastruktur - principer för planering, prissättning och finansiering*. (300 pages, in Swedish). BAS-förlag. Företagsekonomiska institutionen, Handelshögskolan vid Göteborgs universitet. (Doktorsavhandling, februari 1992). ISBN: 91-7246-090-3.

**A2.** Löfsten, H., 1997, *Management of Industrial Maintenance - En empirisk och teoretisk studie av ekonomisk styrning och effektivitet*. (351 pages, in Swedish). Institutionen för industriell organisation och ekonomi, Chalmers tekniska högskola, Göteborg. ISBN: 91-7197-523-3.

**A3.** Löfsten, H., 2002, *Investeringsprocessen - kalkyler, strategier och finansiering*. (272 pages, in Swedish) Studentlitteratur, Lund. ISBN 91-44-01409-0.

### Articles in international journals (double-blind review)

**B1.** Löfsten, H., 1998, Maintenance of Municipal Infrastructure. *Journal of Infrastructure Systems*. (ASCE; American Society of Civil Engineers). Vol. 4, No. 4 (December), pp. 139-145. ISSN: 1076-0342/98/0004-0139-0145.

**B2.** Löfsten, H., 1999, Management of Industrial Maintenance - Economic Evaluation of Maintenance Policies. *International Journal of Operations and Production Management*, Vol. 19, No. 7 (July), pp. 716-737. MCB University Press. ISSN:0144-3577.

**B3.** Löfsten, H., 2000, Measuring Maintenance Performance - In Search for a Maintenance Productivity Index. *International Journal of Production Economics*. Manufacturing Systems, Strategy and Design, Vol. 63, No. 1 (January), pp. 47-58. Elsevier Science B.V. ISSN 0925-5273.

- B4.** Löfsten, H. and Lindelöf, P., 2001, Science Parks in Sweden - Industrial Renewal and Development? *R&D Management*. The journal of research, technology and innovation management. Vol. 31, No. 3 (July), pp. 309-322. Blackwell Publishers. ISSN: 0033-6807.
- B5.** Lindelöf, P. and Löfsten, H., 2002, Growth, management and financing of new technology-based firms - assessing value-added contributions of firms located on and off Science Parks. *OMEGA - The international journal of management science*. Vol. 30, No. (June), pp. 143-154. Elsevier Science.
- B6.** Löfsten, H. and Lindelöf, P., 2002, Science Parks and the growth of new technology based firms - academic-industry links, innovation and markets. *Research Policy*. A journal devoted to research policy, research management and planning. Vol. 31, No. 6 (August), pp. 859-876. Elsevier Science.
- B7.** Löfsten, H. and Lindelöf, P., 2003, Determinants for an entrepreneurial milieu – Science Parks and business policy in growing firms. *Technovation*. An international journal of technical innovation and entrepreneurship. Vol. 23, No. 1 (January) pp. 51-64. Elsevier Science.
- B8.** Lindelöf, P. and Löfsten, H., 2003, Science Park location and new technology-based firms in Sweden – implications for strategy and performance. *Small Business Economics*. An international journal. Vol. 20, No. 3, (May), pp. 245-258. Kluwer Academic Publishers.
- B9.** Lindelöf, P. and Löfsten, H., 2004, Proximity as a resource base for competitive advantage - university–industry links for technology transfer. *Journal of Technology Transfer, special issue*, Vol. 29, No. 3/4, pp 311-326. Springer Science.
- B10.** Löfsten, H. and Lindelöf, P., 2005, Environmental hostility, strategic orientation and the importance of management accounting – empirical analysis of new technology-based firms. *Technovation - An international journal of technical innovation and entrepreneurship*, Vol. 25, No. 7, pp. 725-738. Elsevier Science.
- B11.** Löfsten, H., and Lindelöf, P., 2005, R&D networks and product innovation patterns of academic and non-academic new technology-based firms on Science Parks. *Technovation - An international journal of technical innovation and entrepreneurship*, Vol. 25, No. 9, 1025-1037. Elsevier Science.
- B12.** Lindelöf, P., and Löfsten, H., 2005, Academic versus corporate new technology-based firms in Swedish Science Parks: an analysis of performance, business networks and financing. *International Journal of Technology Management*, Vol. 31, Nos. 3/4, pp 334-357. Inderscience Enterprises Ltd.

- B13.** Dettwiler, P., Lindelöf, P and Löfsten, H., 2006, Linking Facilities Management to Location and to Growth and Performance - A Comparative Survey between Small New Technology-Based Firms Located On and Off Science Parks. *Technovation - An international journal of technical innovation and entrepreneurship*, Vol. 26, No. 4, pp 506–517. Elsevier Science.
- B14.** Aaboen, L., von Koch, C, Lindelöf, P. and Löfsten, H., 2006, Corporate governance and performance of small high-tech firms in Sweden. *Technovation - An international journal of technical innovation and entrepreneurship*, Vol 26, nr 8, pp 955-968. Elsevier Science.
- B15.** Lindelöf, P., and Löfsten, H., 2006, Science Park effects in Sweden – dimensions critical for firm growth. *International Journal of Public Policy*, Vol. 1, No. 4, pp. 451-475. Inderscience Publishers.
- B16.** Lindelöf, P. and Löfsten, H., 2006, Environmental hostility and firm behaviour - an empirical examination of new technology-based firms on Science Parks. *Journal of Small Business Management*, Vol 44, No. 3, pp. 386-406. Blackwell Publishing.
- B17.** Lindelöf, P. and Löfsten, H, 2006, Importance of management accounting in new technology-based firms in Sweden - analysis of environmental and strategic variables. *International Journal of Business Environment*, Vol. 1, No. 2, pp. 137-161. Inderscience Enterprises Ltd.
- B18.** Dettwiler, P., Lindelöf, P., and Löfsten, H., 2006, Business environment and property management issues - a study of growth firms in Sweden. *Journal of Corporate Real Estate*, Vol. 8, No. 3, pp 120-133. Emerald Group Publishing Limited.
- B19.** Aaboen, L., Lindelöf, P. and Löfsten, H., 2008, Towards incubator facilitation of technology transfer. *International Journal of Management and Enterprise Development*, Vol 5, No 3, pp. 331-355. Inderscience Publishers.
- B20.** Aaboen, L., Lindelöf, P. and Löfsten, H., 2008, Incubator performance: an efficiency frontier analysis. *International Journal of Business Innovation and Research*, Vol. 2, No. 4, pp 354-380. Inderscience Publishers.
- B21.** Löfsten, H, 2010, Critical incubator dimensions for small firm performance – a study of new technology-based firms localized in 16 incubators. *International Journal of Business Innovation and Research*, Vol 4, No. 3, pp 256-279. Inderscience Publishers.
- B22.** Aaboen, L., Löfsten, H. and Bengtsson, L., 2011, Nourishment for the piggy bank: facilitation of external financing in incubators. *International Journal of Technology Transfer and Commercialisation*, Vol. 10, Nos. 3/4, pp. 354-374. InderScience Publishers.
- B23.** Pasche, M., Persson, M. and Löfsten, H., 2011, Platform dimensions - effects on product innovation projects. *International Journal of Operations and Production Management*, Vol. 31 No. 11, pp. 1144-1163. Emerald Group Publishing Limited.

**B24.** Börjesson, S. and Löfsten, H., 2012, Innovation capabilities in very small firms - A study of 131 high-tech firms and their relation to performance. *International Journal of Business Innovation and Research*. Vol. 6, No 2, pp 149-176. InderScience Publishers.

**B25.** Brattström, A., Löfsten, H. and Richtnér, A., 2012, Creativity, trust and systematic processes in product development. *Research Policy*. Policy, management and economic studies of science, technology and innovation. Vol 41, No. 4 (May) pp 743-755. Elsevier Science.

### **Articles in review-process or in progress**

**C1.** Aaboen, L. and Löfsten, H., 2012, International new ventures localized in incubators - Markets, resources and dynamic environment. Under review.

**C2.** Richtnér, A., Börjesson, S. and Löfsten, H., 2012, Resilience and Creativity in Product Development Organizations. Will be sent to review in August.

**C3.** Brattström, A., Löfsten, H. and Richtnér, A., 2012, Can Radical Innovation be Systematic? The Role of Trust, Systematic Processes and Innovativeness in Product Development. Under review.

**C4.** Löfsten, H., Brattström, A. and Richtnér, A., 2012, Product innovation resources and the tradeoff between product innovation performance and business performance. Nearly finished and will be sent to review.

**C5.** Richtnér, A., Brattström, A. and Löfsten, H., 2012, Examining enabling conditions for knowledge creation. Nearly finished and will be sent to review.

**C6.** Löfsten, H. 2012, Critical resource dimensions for development of patents – an analysis of 131 small new technology-based firms in incubators. Nearly finished and will be sent to review.

### **Book chapters (double-blind review)**

**D1.** Löfsten, H., 2000, Underhålllets produktivitetmått - några empiriska och teoretiska implikationer, kap 3, pp 39-58 (in Swedish). Utan handledning. En vänbok till Göran Bergendahl (Red: Lindblom, T. och Segelod, E.) BAS-förlag. Företagsekonomiska institutionen, Handelshögskolan vid Göteborgs universitet. ISBN 91-7246-178-0.

**C2.** Löfsten, H., 2001, Teknik- och forskningsparkers effekter på små teknikbaserade företags tillväxt och lönsamhet - några metodmässiga överväganden, kap 7, pp 121-140. Ur en forskarhandledares örtagård. En vänbok till Bertil Gandemo (Red: Landström, H., Mattsson, J. och Helmersson, H.). Lund Studies in Economics and Management 65, Lund Business Press. Institute of Economic Research, Lunds universitet. ISBN 91-974074-3-7.

**D3.** Lindelöf, P. and Löfsten, H. 2006, Science Park Location and New Technology-Based Firms in Sweden: Implications for Strategy and Performance, earlier published in *Small Business Economics*, 20(3), pp. 245-258 and now published as chapter 16 in *Technological Entrepreneurship: Institutions and Agents Involved in University Technology Transfer* (Editor: Donald S. Siegel). The International Library of Entrepreneurship, Series Editor: David Audretsch. Vol 1, Edward Elgar Publishing Ltd, London.

**D4.** Löfsten, H., 2012, Business planning, product development and localization - a study of 131 incubatees located on 16 incubators in Sweden, pp. 47-61 (chapter 3), in “*Do we need the entrepreneurial university? Triple Helix perspective*” (Editor Marina Dabic). Faculty of Economics and Business, Zagreb University. ISBN 13: 978-953-6025-58-9, ISBN 10: 953-6025-58-2.

### **Scientific reports (ca 40-150 pages)**

**E1.** Löfsten, H., 1989, En studie av investerings- och underhållsmodeller - en teoretisk översikt. (37 pages, in Swedish). FE-rapport 1989:288, Företagsekonomiska institutionen, Handelshögskolan vid Göteborgs universitet.

**E2.** Löfsten, H., 1989, Studier av investerings- och underhållsplanering i svensk infrastruktur med några exempel från Göteborg. (77 pages, in Swedish). FE-rapport 1989:292, Företagsekonomiska institutionen, Handelshögskolan vid Göteborgs universitet.

**E3.** Löfsten, H., 1993, ABC-kalkylering inom transportverksamhet - en förstudie. (52 pages, in Swedish). FE-rapport 1993:334, Företagsekonomiska institutionen, Handelshögskolan vid Göteborgs universitet.

**E4.** Löfsten, H., 1995, Transportation Costing for Decision Making - Transportation Industry Market Structure in Sweden and its Implications for Pricing and Costing. Kommunikationsforskningsberedningen (KFB) 1995:4, (90 pages). Fritzes/Allmänna Förlaget, Stockholm. ISBN: 91-88370-87-9.

**E5.** Löfsten, H., 1997, Vägkapitalet - en principiell analys avseende syften, metod och kontroll samt förslag till fortsatt forskning. (39 pages, in Swedish). CIM Working Paper No: WP 1997:01, Institutionen för industriell organisation och ekonomi, Chalmers tekniska högskola, Göteborg. ISSN: 0280-9753.

**E6.** Lindelöf, P. and Löfsten, H., 1999, Teknik- och forskningsparker - industriell förnyelse och utveckling (84 pages, in Swedish). IMIT Working Paper Series, WP 99:108. IMIT (Institute for Management of Innovation and Technology). Chalmers tekniska högskola, Göteborg.

**E7.** Lindelöf, P. and Löfsten, H., 2005, Teori och metoder för val av indikatorer för inkubatorer. VINNOVA RAPPORT VR 2005:02 (72 pages, in Swedish), VINNOVA. ISBN 91-85084-26-3.



**E8.** Löfsten, H. Lindelöf, P. and Aaboen, L., 2006, Inkubatorer i Sverige - analys av indikatordimensioner och nyttoeffektivitet (148 pages, in Swedish). VINNOVA VA2006:06 (VINNOVA Analys), ISBN 91-85084-61-1.

**E9.** Aaboen, L. and Löfsten, H., 2007, Nationella Inkubatorprogrammet (NIP) - Finansiering och resursnätverk. Delrapport 1, Innovationsbron, Stockholm. IMIT Working Paper Series (29 pages, in Swedish).

**E10.** Löfsten, H., 2007, Nationella Inkubatorprogrammet (NIP) - Indikatorer för inkubatorer. Delrapport 2, Innovationsbron, Stockholm. IMIT Working Paper Series (54 pages, in Swedish).

**E11.** Löfsten, H., 2012, Industrialization of hybrid electric vehicle technology - analysis of 40 Swedish potential suppliers (71 pages). Energimyndigheten (Swedish Energy Agency).

## **Reviewer for International Journals**

*Scandinavian Journal of Management*

*Journal of Operations Management*

*Journal of Technology Transfer*

*Journal of Management Studies*

*Journal of Business Venturing*

*Telecommunications Policy Journal*

*R&D Management*

*Research Policy*

*International Journal of Production Economics*

*Academy of International Business*

*Omega – the international journal of management science*

*International Journal of Technology Management*

*Journal of Engineering Manufacturing*

*Technovation*

*IEE Transactions on Engineering Management*

*Small Business Economics*

*Journal of Urban Planning and Development*

*Regional Studies*

*Emerging Markets Finance and Trade*

*Technological Forecasting and Social Change*

*International Journal of Business Environment*

*Journal of Business and Industrial Marketing*

*Modern Economy*

*Industry and Innovation*

*International journal of knowledge management studies, special issue*

*International Journal of Transitions and Innovation Systems*

*Journal of Small Business Management*  
*American Journal of Industrial & Business Management*  
*European Journal of Operational Research*  
*Journal of Service Science and Management*

### **Member of Editorial Boards**

*International Journal of Technology and Investment (TI)*, Scientific Research Publishing  
*Journal of Service Science and Management (JSSM)*, Scientific Research Publishing  
*International Journal of Transitions and Innovation Systems*  
*American Journal of Industrial & Business Management*  
*Journal of International Business Management*