

SBWL Supply Networks and Services

The logo for WU (Wirtschaftsuniversität Wien) features the letters 'WU' in a large, bold, black serif font.

WIRTSCHAFTS
UNIVERSITÄT
WIEN VIENNA
UNIVERSITY OF
ECONOMICS
AND BUSINESS

Tina Wakolbinger
Institute for Transport and Logistics
Management



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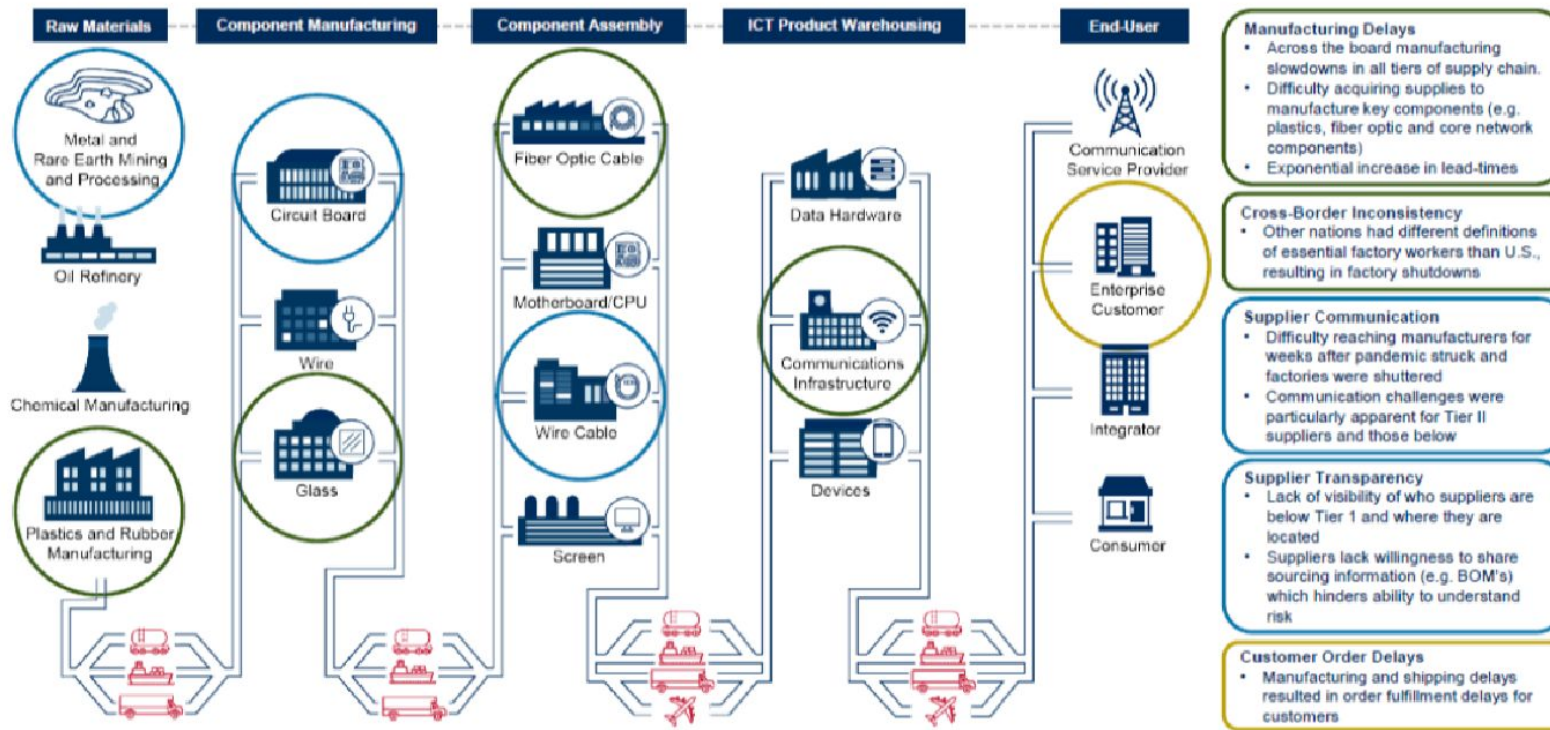
Head: Univ. Prof. Dr. Sebastian Kummer

Deputy Head: Univ. Prof. Tina Wakolbinger, Ph.D.



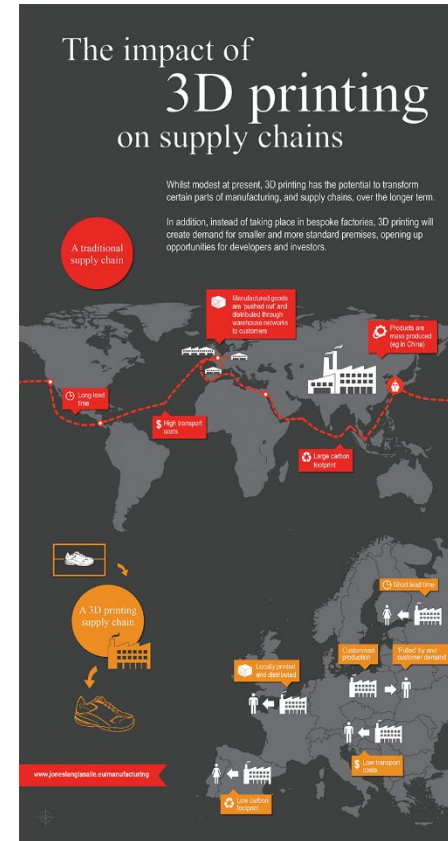
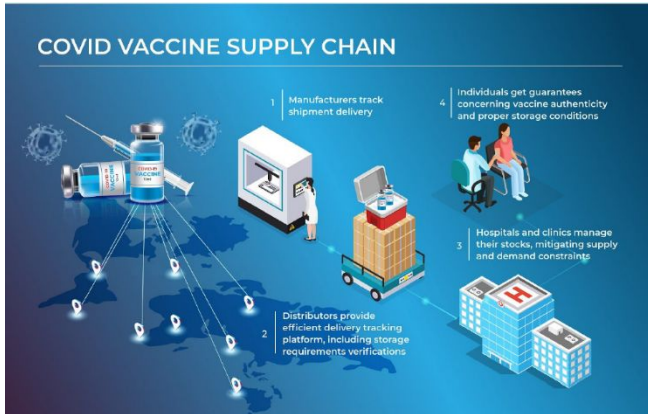
What is a Supply Chain?

- All stages involved, directly or indirectly, in fulfilling a customer request



Source: *Building A More Resilient ICT Supply Chain: Lessons Learned During The COVID-19 Pandemic*, ICT Supply Chain Risk Management (SCRM) Task Force's COVID-19 Impact Study Working Group (WG) 2020

Supply Chain Trends and Challenges



- Complexity in supply chains is increasing due to globalization, urbanization, ecological and social challenges.
- The SBWL 'Supply Networks and Services' deals with models and tools to support decision making within companies and NGOs in the field of supply chain management. A specialization in the field of sustainable supply chain management or supply chain management for disaster relief is possible.
- In addition to numerous case studies and practical examples, the SBWL 'Supply Networks and Services' attaches great importance to a research- and method-oriented education of its students.

SBWL Supply Networks and Services

Course I: Introduction to Supply Chain Management
Course III: Supply Chain Modeling and Design
Course II: Analysis and Optimization of Distribution Networks

**Core
First Semester**

Course IV:
Humanitarian
Logistics

or

Course IV:
Sustainable Logistics

Seminar:
Humanitarian
Logistics

Seminar:
Project
Management

Seminar:
Sustainable
Logistics

**Elective
Second
Semester**

International case study competition HUMLOG and international recognition



QS Global Ranking

QS Business Masters Ranking 2022

WU Master in Supply Chain Management

□ **Rank 1** in Europe

□ Rank 2 globally among 62 programs

International experience and relevance of Supply Chain Management: Networks & Services

Example for Supply Chain Network Design: Location for an energy generation plant



Composting plant



Sewage plant

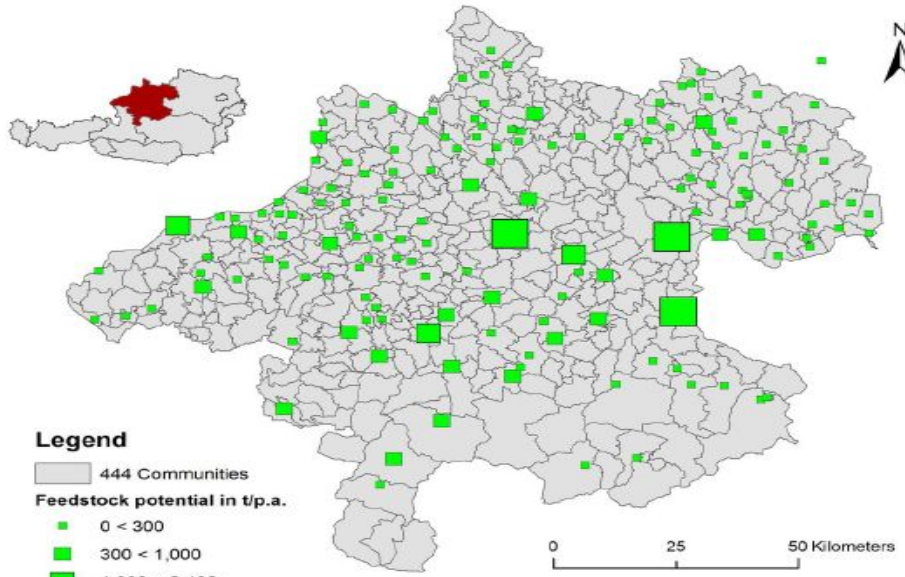


HTC-facility

Stefan Rotter, 2012, A Facility Location and Allocation Model for Biomass-based Energy Carrier Production in Upper Austria, 2012

Research questions

1. How much feedstock potential in terms of sewage sludge and municipal biowaste is theoretically available and where are those feedstock types located in Upper Austria?
2. Where are potential locations for HTC-facilities?
3. What is the optimal number of HTC-facilities to convert the feedstock potential into biocoal as an energy carrier?
4. Where are optimal locations for those HTC-facilities considering the allocation of feedstock locations?
5. What is the network-wide profit that could be realized by applying this supply chain network design?
6. How does the baseline supply chain network design differ when model parameters are changed?



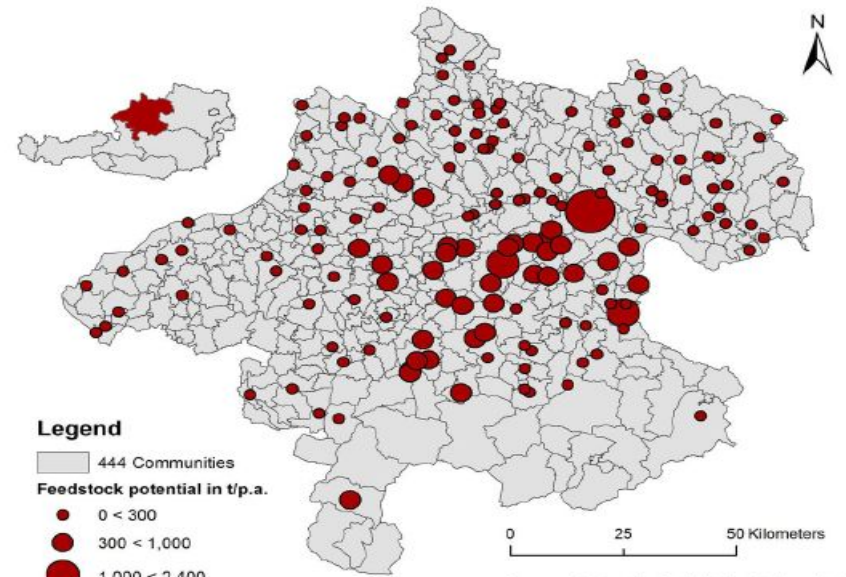
Legend

444 Communities

Feedstock potential in t/p.a.

- 0 < 300
- 300 < 1,000
- 1,000 < 2,400
- 2,400 < 19,000

Sources: ArcAustria (geodata), Office of the Provincial Government of Upper Austria, Department Environment and Water (thematic data)



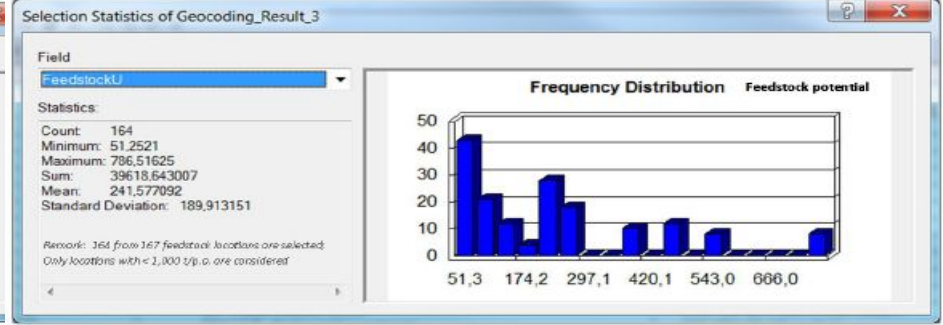
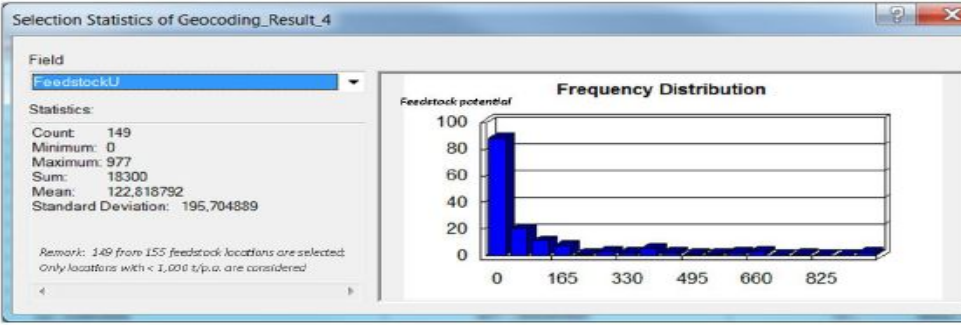
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444 Communities

Feedstock potential in t/p.a.

- 0 < 300
- 300 < 1,000
- 1,000 < 2,400
- 2,400 < 12,000

Sources: ArcAustria, Statistik Austria (geodata), Office of the Provincial Government of Upper Austria, Department Environment and Water (thematic data)

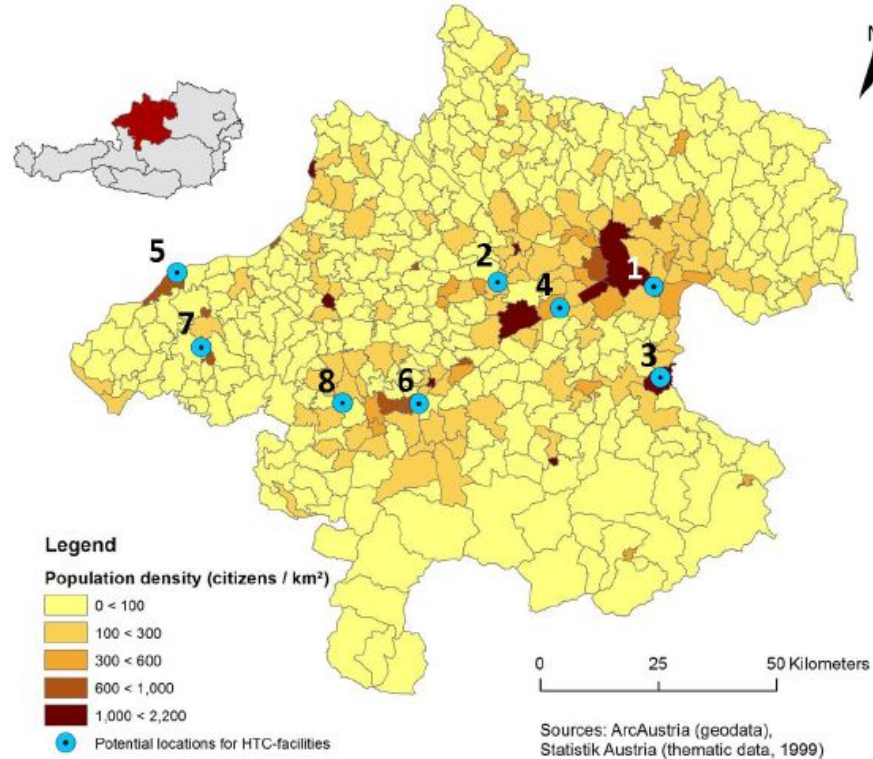


Sewage plant

Rotter 2012

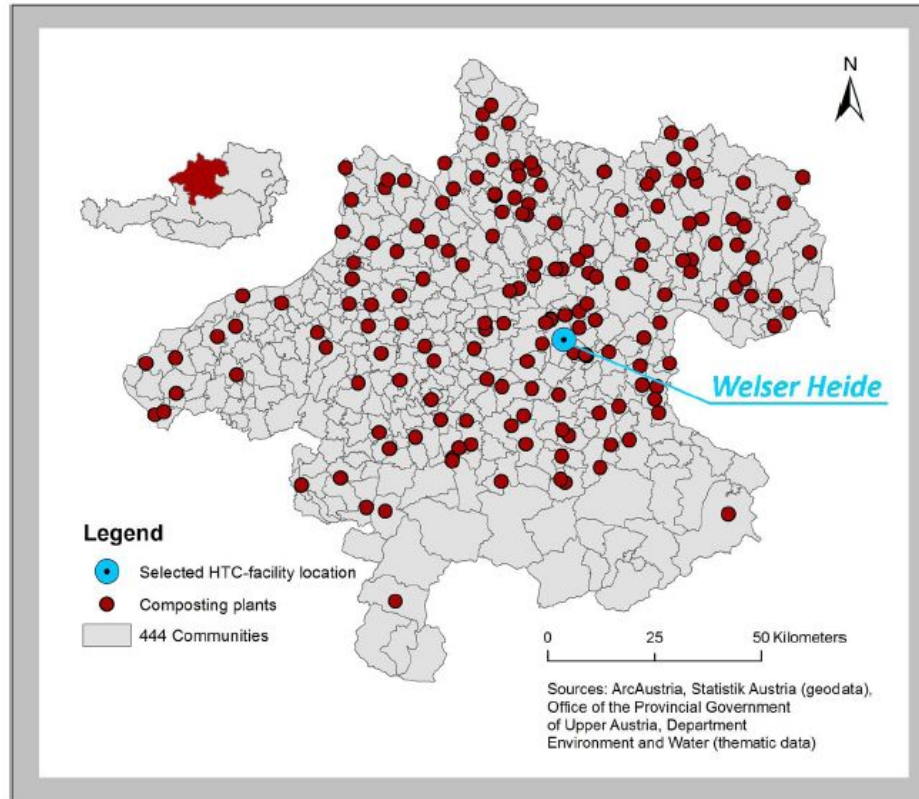
Composting plant

Potential locations for HTC facilities



Rotter 2012

The optimal location



Rotter 2012

Company visits

Henkel, Summer Semester 2018



Post, Summer Semester 2017



Job opportunities

The SBWL offers an excellent preparation for the Master program in Supply Chain Management at WU.

A strong demand for well-trained people exists in the area of Supply Chain Management, e.g.:

- Supply chain management in industrial, commercial and service companies
- Logistics companies
- Consulting companies in the field of Supply Chain Management

Our communication channels

Institute



Mailing list

[http://wu-lists.wu-wien.ac.at/
mailman/listinfo/sns](http://wu-lists.wu-wien.ac.at/mailman/listinfo/sns)



Website of the institute

<http://wu.ac.at/itl>



Institute for
Transport and Logistics
Management

Courses

Learn@WU



E-Mails regarding specific
courses

firstname.lastname@wu.ac.at

- The SBWL starts each semester with up to 40 students.
- The formal requirements for admission to an SBWL at WU must be met.
- Admission to the SBWL requires the successful completion of the AG "Access to Specialization in Business Administration: Supply Networks and Services" (see WU Course Catalog).
- Admission to the SBWL is based on a motivation letter and the GPA.

Enrollment process of the SBWL

Step 1:

- Please register for the AG **LV Nr. 1293 "Access to Specialization in Business Administration: Supply Networks and Services"**.
Registration is possible from **January 7, 2022 until February 6, 2022 using LPIS.**
- **ATTENTION!!** Without exception, **NO** application documents will be accepted after the deadline!
- Students who have a "Very Good" or "Good" in the course "Procurement, Logistics, Production" (BLP) have automatically successfully completed the AG. The grade of BLP is automatically checked by the Institute.

Enrollment process of the SBWL

Step 2:

- (weight 1/3) Written letter of motivation: Please upload a letter of motivation of maximum one page and a CV in the AG under "Assignments" (saved in a PDF file in the format "Last_name_first_name_matriculation_number.pdf") by **February 07, 2022, 23.55 hrs** at the latest.
- (weight 2/3) **Previous academic performance** - student ranking based on grade point average (for further information about the ranking, please see: <https://www.wu.ac.at/en/students/tools-services/rankings>): The student performance is checked by the Institute automatically.
- We will inform the accepted students until **February 08, 2022**. If you have not heard from us by then, this means that you are on the waiting list.

Step 3:

- Make sure by selecting the SBWL at LPIS that you are enrolled to the basic courses. Accepted students have to enroll to Courses I, II and III. Please check the WU Course Catalog for the enrollment period.

Further information

- Information on the SBWL can be found at:
<https://www.wu.ac.at/itl/lehre/bachelor/sbwl/sbwl-supply-networks-and-services>
- If you have any questions about the SBWL Supply Networks and Services, please contact Doris Phiri at
sbwl-sns@wu.ac.at