

Nuremberg West: Way(s) forward

Projekt im Master Urbanistik, Wintersemester 2011/12, Lehrstuhl für Raumentwicklung

Course Syllabus

Time: Mondays-Thursdays 14:00-18:00

Venue: Room 1815, Heizkraftwerk

Prof. Alain Thierstein

Office hours: Mondays 15:30-16:30

Agnes Foerster

Office hours: Wednesdays 09:00-10:00

Dr. Michael Dross

Office hours: Mondays 09:00-10:30

Dr. Nina Alaily-Mattar

Office hours: Mondays 11:00-12:00

Irina Auernhammer

Course objectives

In the context of structural adjustment and deindustrialization, many cities in Western Europe are undergoing urban transformation. While the physical transformation is the most visual and, perhaps, apparently immediate task, the challenge for the sustainable development of cities is far greater than merely restoring the left behind debris of de-industrialization. Rather, the challenge is to find new rationale(s) for “being” and to set up mechanisms that work to replace the predominantly economic rationale that has been lost. This task is not simple, on the one hand, the success of cities today presumes connectivity to global networks of economic activities, in which bits and piece of goods and services are produced, assembled and consumed globally. On the other hand, cities continue to have a regional and everyday life dimension in which people are grounded as they socialize, study, play, grow old, get sick etc...

The objectives of this course is to expose students to a real life urban problem and to train them with the tools needed to analyze and address the challenges of sustainable urban development. By the end of this course students will be equipped with the ability to:

1. analyze urban issues critically and comprehend the complexity of the question of scale;
2. understand the dynamism of urban conditions and identify trends in the evolution of urban problems,
3. comprehensively present urban problems visually;
4. address urban challenges associated with sustainable development in innovative and creative ways;
5. propose appropriate and realistic strategic solutions, mechanisms and scenaria.

Course background

This project is part of a multidisciplinary effort at the TUM. The Municipality of Nuremberg is currently re-generating different areas in Nuremberg with a view of sustainable urban development, it commissioned a research project, titled, “Stadtlabor Nuernberger Weststadt” at Centre for Energy Efficient and Sustainable Design and Building (ENPB) of TUM to study Nuremberg West (NW) and draw recommendations towards its sustainable urban development. Under the leadership of the ENPB, a consortium of departments, among them Chair for Spatial Development are currently working on this research project. By the Sep 2012, the TUM is expected to present integrated findings for the sustainable development of NW. This project is a contribution towards those efforts.

Course description

This course is organized into lectures and studio work, in addition, students will be directed at a number of relevant events. The seminar, titled, “Sustainable Cities”, which all students are also enrolled in, runs in parallel to this course. Seminar lectures and deliverables are synchronized with the content of this course. Lectures provide valuable source of information regarding the tasks at hand. Studio work is mandatory. Students have to be present in the studio Mondays to Thursdays from 14:00-18:00, during which they will work or be tutored. Pin-ups occur on a weekly basis. Students are requested to present the status of their work to the rest of the class.

The course work is divided into 4 main assignments, in which students will be working in groups. In each assignment, students will regroup into new constellations. Groups will be tutored during studio hours. Group work is vital for the success of this project. The exchange of background experience that each student brings, in addition to dialogue and negotiation pushes the discussion forward and enriches the consensus that each group presents.

The first assignment is dedicated to analyzing NW. Analyzing urban areas is a complex task we divide it into three main themes, namely (1) economy, (2) social and cultural networks and (3) housing. Students are asked to form groups. Each group will tackle one theme. A recurring exercise in this part of the course will be to raise awareness among the students as to the different spatial scales at which the analysis is undertaken and how scale contributes to our perception of problems and solutions. For example, at the scale of the city quarter, the lack of certain amenities, e.g. grocery stores, kindergarten etc... might impede the everyday liveability of this quarter. At the scale of the metropolitan area this would translate into weak desirability of certain areas, security problems, increasing need for policing and potentially, rising rents elsewhere.

At the end of this first part of the course students will be able to organize their comprehension of thematic strengths/weaknesses of the area under study, categorize these at different scales and understand the linkages of different scales of analysis. Each group will present its findings in the form of two A0 sheets and one A3 booklet, which illustrates its findings.

The second assignment of the course will bring the different thematic analyses together. Groups are reformed, in a way that at least one representative of the former thematic groups is present in each of the newly formed groups. These new groups will undertake a cross-sectional analysis which builds on the findings of the thematic analysis. Each group will be asked to carry out a Strengths Weaknesses (SW) analysis of the study area, i.e. the SW of a SWOT analysis. Each group will present its findings in the form of two A0 sheets and one A3 booklet that illustrates its findings.

The third assignment of the course brings the time dimension to the fore. Urban development is a dynamic process that projects into an unknown future. Users’ requirements, tastes, values and lifestyles change over time. Population characteristics are dynamic. Demography today is certainly different than the one in the future. In this part of the course, the assignment will be to identify trends. Trend tool will be utilized to bring the findings of the analyses together and comprehend development trends. Opportunities/Threats (OT) are identified (the OT of the SWOT analysis). These will be visualized. Each group will present its findings in the form of two A0 sheets and one A3 booklet.

The fourth assignment is geared towards utilizing the findings of the analyses and trends, for proposing way(s) forward for NW. By now the students will have discovered why, if at all, it is worthwhile to sustain NW, the impediments faced to sustaining NW and the different interest groups involved in the process. Building on this knowledge, students are asked in this final assignment to propose “solutions” as road maps for way(s) forward. There is no consensus today as to what “solution” vehicles look like. They could be in the form of scenarios, strategies or even strategic urban plans that connect spatial interventions to the

social, economic and cultural context. Hence, in this final assignment we give students the freedom to choose the solution vehicle that they perceive as best befitting to achieve way(s) forward.

This is a task that requires (1) drawing from the findings of the analysis and trends, a package of development possibilities and (2) projecting from these possibilities ambitions and end goals that are set within the framework of sustainable urban development. The solution vehicle chosen links the identified goals to the package of possibilities, at best in a way that makes use of public and private resources in a collaborative and participatory manner, while leaving room for contributions from varied disciplines like urban design, urban planning, landscape design, sociology, economics, finance and management. Solutions also include identifying policy interventions, the different mechanisms, e.g. institutional, that need to be mobilized and time scales for development. Students present their “solutions” on A0 sheets and one A3 booklet.

Deliverables and due dates

For each assignment hard copies in the form of two A0 sheets and one A3 booklet (landscape layout) are expected as a deliverable. Deliverables are to be handed in person at the Chair for Spatial Development on the Due date by 16:00. The due dates are as follows:

Assignment 1: “Analysis” Wednesday, 16th Nov, 2011 at 16:00
Student presentation: Thursday, 17th Nov., 2011 from 14:00-17:30

Assignment 2: “Cross-sectional Analysis” Monday, 28th Nov, 2011 at 16:00
Student presentation: Tuesday 29th Nov, 2011 from 14:00-17:30

Assignment 3: “Trends” Monday 19th Dec, 2011 at 16:00
Student presentation: Tuesday 20th Dec., 2011 from 9:00-11:00

Assignment 4: “Proposals for Way(s) forward” Friday 10th Feb, 2012 at 16:00
Final presentation: Tuesday 14th, Feb., 2012 from 9:00-12:00

Grading

The grades for the individual assignments contribute to the final grade in the following manner:

Assignment 1: 25%
Assignment 2: 15%
Assignment 3: 20%
Assignment 4: 40%

Lectures schedule

WEEK 2: Tuesday 25.10.2011

9:45-11:15 **Lecture 1:** Sustainable Urban Development (Alain Thierstein)
14:00-16:00 **Lecture 2:** Perspectives of Analysis (Agnes Förster)

WEEK 3: Wednesday 02.11.2011

16:00-18:00 **Prof. Dr. Werner Lang:** Nachhaltige Entwicklung der Nürnberger Weststadt: Darstellung von Methoden zur interdisziplinären Zusammenarbeit (Room 1743)

WEEK 4: Tuesday 08.11.2011

9:45-11:15 **Lecture 3:** Urban Regeneration Initiatives in Perspective (Nina Alaily-Mattar)

WEEK 5: Tuesday 15.11.2011

9:45-11:15 **Lecture 4:** Case study Zurich West (Alain Thierstein)

WEEK 6: Tuesday 22.11.2011

14:00-16:00 **Lecture 5:** Cross-sectional Analysis: Methods and Concepts (Agnes Förster)

WEEK 7: Tuesday 29.11.2011

9:45-11:15 **Lecture 6:** Impact chains (Michael Dross & Alain Thierstein)

WEEK 8: Tuesday 06.12.2011

14:00-16:00 **Lecture 7:** Trend tool- Case Study Liechtenstein (Alain Thierstein)

WEEK 9: Tuesday 13.12.2011

14:00-16:00 **Lecture 8:** Spatial Strategy: Theory, Concepts and Methods (Michael Dross & Nina Alaily-Mattar)

WEEK 13: Tuesday 10.01.2012

14:00-16:00 **Lecture 9:** Masdar City: Image and Making of a Sustainable City (Amer Moustafa) tbc

WEEK 14: Tuesday 17.01.2012

9:45-11:15 **Lecture 10:** Successful Presentation Techniques (Michael Dross)

Schedule				
Intro	Week 1	17-23 Oct.	Intro: Collecting Info / Brainstorm week	
	10/17/2011	Mon		
	10/18/2011	Tue	9:00-13:00	Presentation of project
	10/19/2011	Wed	9:00-19:00	Excursion
	10/20/2011	Thurs	9:00-12:00	Student Presentations: Hypotheses + Brainstorming
	10/21/2011	Friday		
Analysis	Week 2	24-30 Oct	Start "Analysis"	
	10/24/2011	Mon		
	10/25/2011	Tue	9:45-11:15 14:00-16:00	Lecture 1: Sustainable Urban Development Lecture 2: Perspectives of Analysis
	10/26/2011	Wed		
	10/27/2011	Thurs	14:00-16:00	Pin-up
	10/28/2011	Friday		
	Week 3	31-6 Nov		
	10/31/2011	Mon		
	11/1/2011	Tue		
	11/2/2011	Wed	16:00-18:00	Prof Lang: Nachhaltige Entwicklung der Nürnberger Weststadt
	11/3/2011	Thurs	14:00-16:00	Pin-up
	11/4/2011	Friday		
	Week 4	7-13 Nov		
	11/7/2011	Mon		
	11/8/2011	Tue	9:45-11:15	Lecture 3: Urban Regeneration Initiatives in Perspective
	11/9/2011	Wed		
11/10/2011	Thurs	14:00-16:00	Pin-up	
11/11/2011	Friday			
Cross-sectional Analysis	Week 5	14 -20 Nov	End "Analysis", launch "Cross-sectional analysis"	
	11/14/2011	Mon		
	11/15/2011	Tue	9:45-11:15	Lecture 4: Case study Zurich West
	11/16/2011	Wed		Due at 16:00 "Assignment 1: "Analysis"
	11/17/2011	Thurs	14:00-17:30	Presentation and Critique 1: "Analysis" Launch Assignment 2: "Cross-sectional Analysis"
	11/18/2011	Friday		
	Week 6	21- 27 Nov		
	11/21/2011	Mon		
	11/22/2011	Tue	9:45-11:15 14:00-16:00	Seminar Critique 1: "Sustainability criteria" Lecture 5: Cross-sectional Analysis: Methods and Concepts
	11/23/2011	Wed		
	11/24/2011	Thurs	14:00-16:00	Pin-up
11/25/2011	Friday			
Trends	Week 7	28 - 4 Dec	End "Cross-sectional analysis", launch "Trends"	
	11/28/2011	Mon		Due at 16:00 Assignment 2: "Cross-sectional Analysis"
	11/29/2011	Tue	9:45-11:15 14:00-17:30	Lecture 6: Impact chains Presentation and Critique 2: "Cross-sectional analysis" Launch Assignment 3: "Trends"
	11/30/2011	Wed		
	12/1/2011	Thurs	14:00-16:00	Directions on how to work on "trends"
	12/2/2011	Friday		
	Week 8	5 - 11 Dec		
	12/5/2011	Mon		
	12/6/2011	Tue	9:45-11:15 14:00-16:00	Tutoring Seminar "Case studies" Lecture 7: Trend tool- Case Study Liechtenstein
	12/7/2011	Wed		
	12/8/2011	Thurs	14:00-16:00	Pin-up
12/9/2011	Friday			

Trends	Week 9	12- 18 Dec		
	12/12/2011	Mon		
	12/13/2011	Tue	9:45-11:00 14:00-16:00	Seminar Critique 2: "Case studies" Lecture 8: Spatial Strategy: Theory, Concepts and Methods
	12/14/2011	Wed	15:00-17:30	Transportation systems presentations (Lst. Wulfhorst)
	12/15/2011	Thurs	14:00-16:00	Pin-up
	12/16/2011	Friday		
Solutions	Week 10	19- 25 Dec	End "Trends", launch "Solutions"	
	12/19/2011	Mon		Due at 16:00 Assignment 3: "Trends"
	12/20/2011	Tue	9:00-11:00 14:00-17:30	Presentation and Critique "Trends": Opportunities and Threats in NW Launch Assignment 4: "Solutions"
	12/21/2011	Wed		
	12/22/2011	Thurs		
	12/23/2011	Friday		
	Week 11-12 Christmas break			
Solutions	Week 13	9-15 Jan		
	1/9/2012	Mon		
	1/10/2012	Tue	9:45-11:00 14:00-16:00	Seminar workshop "Consequences for NW" Lecture 9: Masdar City: Image and Making of a Sustainable City (tbc)
	1/11/2012	Wed		
	1/12/2012	Thurs	14:00-16:00	Pin-up
	1/13/2012	Friday		
	Week 14	16 - 22 Jan		
	1/16/2012	Mon		
	1/17/2012	Tue	9:45-11:15	Lecture 10: Successful Presentation Techniques
	1/18/2012	Wed		
	1/19/2012	Thurs	14:00-16:00	Pin-up
	1/20/2012	Friday		
	Week 15	23 - 29 Jan		
	1/23/2012	Mon		
	1/24/2012	Tue	9:45-11:00	Tutoring seminar "Consequences for NW"
	1/25/2012	Wed		
	1/26/2012	Thurs	14:00-16:00	Pin-up
	1/27/2012	Friday		
	Week 16	30- 5 Feb		
	1/30/2012	Mon		
	1/31/2012	Tue	8:30-11:15	Seminar final Critique
	2/1/2012	Wed		
	2/2/2012	Thurs		
2/3/2012	Friday			
Week 17	6-12 Feb	End "solutions"		
2/6/2012	Mon			
2/7/2012	Tue			
2/8/2012	Wed			
2/9/2012	Thurs			
2/10/2012	Friday		Due at 16:00 Assignment 4: "Solutions"	
Final Pres.	Week 18	13-17 Feb	Wrap-up	
	2/13/2012	Mon		
	2/14/2012	Tue	9:00-12:00	Final Presentation and Critique
	2/15/2012	Wed		
	2/16/2012	Thurs		
	2/17/2012	Friday		

Reading List

Planungstheorie / Planungsmethoden

- Schönwandt, Walter L., Christoph Hemberger, Jens-Peter Grunau, Katrin Voermanek, Rüdiger von der Weth und Rinat Saifouline (2011): Die Kunst des Problemlösens – Entwicklung und Evaluation eines Trainings im Lösen komplexer Planungsprobleme. In: disP185: 14-26.
- Förster, Agnes und Alain Thierstein (2011): Möglichkeitsraum des Wirkungsvollen Zusammenspiels von Analyse, Visualisierung, Kommunikation. Diskussionspapier zu dem Expertenworkshop am 27.10.2011. Verfügbar unter <http://www.raumentwicklung-tum.de/aktuelles.php>.
- Schönwandt, Walter (1999): Grundriss einer Planungstheorie der "dritten Generation". In: Disp: S. 25-35.

Nachhaltigkeit

- Thierstein, Alain und Manfred Walser (2007): An evaluation framework of quality management of projects for regional sustainable development. In: Uwe Schubert und Eckhard Störmer (Hrsg.), Sustainable Development in Europe. Concepts, Evaluation and Applications. Serie: Evaluating Sustainable Development, Peter Hardi und André Martinuzzi (Hrsg.). Cheltenham, UK, Northampton, MA, USA: Edward Elgar: 125-142.
- Thierstein, Alain, Wilhelm Natrup, Sabine Friedrich, Dunja Binggeli und Carolina Grimaldi (2005): Aufbruch West? Nachhaltige Entwicklung und städtische Erneuerung am Beispiel von Zürich West. Zürich: Zürcher Kantonalbank. http://www.zkb.ch/etc/ml/repository/prospekte_und_broschueren/corporate/studien/studie_aufbruchwest_pdf.File.pdf, Zugriff am 19.01.2009.

Ressourcen / Wirkungsmodell / Konversionsflächen

- Thierstein, Alain, Anne Wiese und Agnes Förster (2011): Kreativ, attraktiv, wettbewerbsfähig. Die Stadt verstrickt im Netz der Möglichkeiten. In: Angelus Eisinger, Nina Brodowski und Jörg Seifert (Hrsg.), urbanRESET. Freilegen immanenter Potenziale städtischer Räume. Basel: Birkhäuser.

Trends / Szenarien

- Thierstein, Alain, Angelus Eisinger, Agnes Förster, David van Handel und Viktor Goebel (2008): Metamorphosis 100: Liechtenstein in the Year 2068. In: H.S.H. Prince Michael of Liechtenstein und Kurt R. Leube (Hrsg.), Twentysixtyeight. Vaduz: Industrie- und Finanzkontor: 92-148.
- Thierstein, Alain, Christof Abegg, Michael Droß, Sabine Friedrich, Viktor Goebel, Wilhelm Natrup, Mark Sieber und Matthias Thoma (2007): Evaluierung der Perspektive München. Evaluierungsbericht 2007. München: Landeshauptstadt München.

Relationale Analyse / Raumverständnis

- Alain Thierstein, Anne Wiese, Isabell Nemeth (2011 forthcoming): Nachhaltige Stadtentwicklung in einem relationalen Bezugsrahmen. In: Detail.
- Lehrstuhl für Raumentwicklung (2011): GAP - Neu gedacht. Ausstellung in Garmisch-Partenkirchen vom 16.03. bis 23.03.11, gemeinsam vom Institut Entwerfen, Stadt und Landschaft der TU München und dem Deutschen Werkbund e.V. realisiert [auf der Internetseite des Lehrstuhls www.raumentwicklung-tum.de unter "Aktuelles" verfügbar]
- CABE, Commission for Architecture and the Built Environment (2010): Getting the big picture right - A guide to large scale urban design. CABE, London.