CITIES all over the world are reinventing their positions, either driven by changes in national policies, decentralizing governance or reacting to the reality of competition and collaboration or both, as economy, services or the changing number of inhabitants. This is often out of a desire or perceived necessity to respond to the changing ambitions, values and demands. One often has to think of rotations such as ‘Reinventing Cities’, ‘Metamorphosis’, ‘Self-regulation’ and ‘Branding’ to understand that traditional ways to organize a city or community will need to adequately address these emerging ambitions.

design thinking

These current challenges are becoming more complex and interwoven. Fed by a large number of sometimes contradictory and definitely vicious ambitions they need to be addressed in a manner that justifies all involved. Changes are good. And by nature, changes are complex and difficult to implement. They are disruptive and evoke resistance. Change needs continuous implementation and governance. The more complex a challenge is, the more actors are involved, and the more stakeholders traditional means to development becomes.

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One needs to build robust solutions, better robust environments and contexts. Solutions need to address ambitions of all actors, not only the most powerful ones. The rapidly changing realities. It is exactly these rapidly changing realities – economic, political and social – that have led to the realization that innovation in governance and policy-making processes is crucial for a city to keep operating successfully. Intelligent ways to address and implement developments are needed. Intelligent in terms of creating efficient and economically viable solutions for both processes and implementations; intelligent in terms of being informed by relevant parties.

Prototyping

Current solutions on ‘Design Thinking’ move towards inclusive and collaborative processes. These are aimed at efficiently preparing innovation and implementation of solutions. Effective prototyping presents essentially different processes and settings. Firstly and foremost, these processes create collaborative structures for professionals, administrators and citizens.

The scenarios start by identifying a series of challenges with representatives of the educational institutes in Delft, including students and student organizations, housing corporations and the municipality itself. This inventory of ambitions, foreshadowing and perceptions guided by SWOT analyses and the identification of Driving Forces (happening, but unsure, but sure) and Critical Uncertainties (happening, but unsure) and their regional competition.

These scenarios were taken by the students of the University of Kentucky to investigate further. Scenarios specific information was collected and implemented in the more concrete descriptions of plausible futures for Delft. The scenarios present extreme positions aimed to unveil current conditions and realistic future situations. They operate as context to test current plans on their robustness and adaptability to remain significant regardless of how the future actually unfolds.
When: Week after Noordoostpolder Tulip Festival
Where: Delft City Center
What: Delft Blue Festival is a week long annual event. Vendors will sell highly collectible Delft Blue pottery, both new and old.

MOJO Festival
When: Third week in July
Where: Old TU library
What: Mojo Festival will be an annual summer event with a mixture of different music genres. It will feature chart-topping musicians and take place a week after Tomorrowland, one of Europe's largest music festivals.

Tourist Destination for the Netherlands

EMPHASIS ON CENTRAL LOCATION OF DELFT AS A TOURIST HUB
OLD FACILITIES ON T.U.'S CAMPUS BECOME NEW TOURIST AMENITIES.
DELFT BECOMES THE MAIN TOURIST HUB OF THE NETHERLANDS AND DEVELOPS A NUMBER OF ATTRACTIONS TO MAKE IT A MORE POPULAR DESTINATION IN SOUTH HOLLAND.

EXISTING
FUTURE

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For a thriving economy, regions must either be competitively stronger or complementary to their surrounding region's area of expertise. For the city of Delft to exponentially increase its successfullness, it must become a complementary economy to its surrounding province, nation, and continent. Along with Delft’s existing strong points and the nation’s existing foundation in innovation, Delft can easily thrive internationally as a knowledge city through implementation of a few interventions.

**Main Strengths**

- Innovation organizations
- Infrastructure

**Innovation Organizations**
- Netherlands Biotech Parks
- Pharmaceutical Parks
- International Business & Justice
- Security, Cyber Security
- TU Delft, University of Leiden
- Port of Delft, Medical Campus, Exact, Font-I, Bollians
- Medical Delta, Rotterdam Airport, standalone, exports

**Infrastructure**
- Glass Houses, Port of Rotterdam

The region has excellent means of infrastructure and connection to the surrounding regions. This reinforces the geographical importance of South Holland in its capability for success.

**Physical Interventions**

- More tech companies
- More creative industries

**Non-physical Interventions**

- Improved infrastructure
- Knowledge hub website
- Online education from TU

**The Key Points of the Knowledge Center**

- Regional
- Educational
- Science/Research
- Industry
- Greenhouse

**DELFT KNOWLEDGE CENTER**

**LOCATION**

between TU campus and Technopolis for greatest access to knowledge, innovation, and research & development

**How It’s Made**

- Lego
- Discovery Channel
- Science Channel
- Future Departments

**Houses the International LEGO League Competition Headquarters**

**Houses the Discovery Channel How It’s Made Headquarters**
The future of Delft lies in the hands of the citizens, the students of TU Delft, and the direction of the municipality. Delft, NL: A CITY RICH IN HISTORY TURNED TECHNOLOGY HUB.

THE INTERTWINED ATMOSPHERE OF HISTORY AND INNOVATION

TWO FACED DELFT

A CITY DIVIDED

A CITY RICH IN HISTORY TURNED TECHNOLOGY HUB.

THE MUNICIPALITY AS A FACILITATOR TO RECONCILE GENERATIONAL DIFFERENCES BETWEEN THE STUDENTS AND CITIZENS.

THE SOLUTION

LIVING TOGETHER...SEPARATELY

They pollute the whole city with their noise and disrespect?!

GRUMPY, ELITIST, RUDE PARTY POOFERS?????

THE FUTURE OF DELFT IF WE WORK TOGETHER TO TRANSFORM IT INTO THE KNOWLEDGE CITY OF THE FUTURE!

TECHNOPOLIS!

WHAT WILL YOU LEAVE DELFT?!!!

LIVING TOGETHER...SEPARATELY

Students and residents live separate lives, but their paths cross every day, living together separately.

THE RESULTS

THE ICON OF A FUTURE CITY

The two-faced scenario is a critical look at the current social climate in Delft and the plausible futures that could result out of utilizing their social environment as a driving force for the knowledge city.
Campus and city have a collaborative identity through shared use of spaces.

Transition Program: Space that allow for a variety of events used by both students and citizens.

Campus

- Student Housing
- Student Center
- Multipurpose Event Space

City

- Shared Spaces
- The Division Between Campus and City

Location Relationships: Strategic placement that influences interaction.

Campus Relationship Precedents: Social and spatial interactions between existing campuses and cities.

Delphi University of Technology

- Student Population
- Departments
- Student Housing
- Student Center
- Multipurpose Event Space

University of Kentucky

- Student Population
- Departments
- Student Housing
- Student Center
- Multipurpose Event Space

University of Cincinnati

- Student Population
- Departments
- Student Housing
- Student Center
- Multipurpose Event Space

Illinois Institute of Technology

- Student Population
- Departments
- Student Housing
- Student Center
- Multipurpose Event Space

Campus and city have a collaborative identity through shared use of spaces.
LIVING LAB:
• "an experiential environment in which users are immersed in a creative social space for designing and experiencing their own future."

KNOWLEDGE PAVILIONS:
• generate a symbiotic intelligence used to stimulate the development of the city.
• provide a space for knowledge sharing and mass collaboration
• architectural icons that establish an identity for the knowledge city.

INdelft is a collaborative program that provides incentives for participation in the large-scale Living Lab of the city. Businesses, institutions, social housing programs, schools, restaurants, and individuals can all become certified members of the program. Products designed and developed INdelft will be stamped with an identifying logo, to spread the reputation of this innovative city around the globe.

This experimental environment will be highly attractive to international businesses and tech companies looking for the opportunity to test their prototypes in real-life scenarios.

INnovative, INventive, INtelligent, INspired, INclusive, INcubator
The housing complex is meant for Delft students and residents between the ages of 18 to 35. The design blends the living habits of all ages, incorporating various programs into the building and creating different levels of interaction. Such programs include a marketplace, retail stores, and social/community areas. Because this age range varies in needs and wants, these programs are flexible in adapting to all ages and all possible scenarios. One possibility is to make a variety of different size rooms. These rooms are arranged in a way that will encourage interaction between residents without disruption of their daily lives. The hybrid dwelling must become a combination of necessity, amenity, and community.

The site is an optimal location for the 18-35 demographic. It is centrally located in Delft, making it equidistant from all the offered amenities. It is close to campus for the students. It borders the eastern edge of the city center for entertainment and business. It is also well connected to all of the available transportation options.

The design combines a variety of programs, including retail, restaurants, and residences into one cohesive building. It shows a good example of how a multipurpose housing complex can become integrated into the city and the public. This example shows how simple aggregation of apartments can become an interesting architecture element in the city landscape. The Mountain shows the mixing of different programs by using an aggregation pattern accentuated by creative circulation paths.

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DELFT SCENARIOS 01 - KNOWLEDGE CITY

almere, antwerp, berlin, brussels, delft, eindhoven, the hague, hilversum, leiden, lelystad, rotterdam, utrecht

APRIL MAY JUNE JULY 2013

biking, designing, discussing, drafting, eating, planning, printing, sketching, strategizing, walking