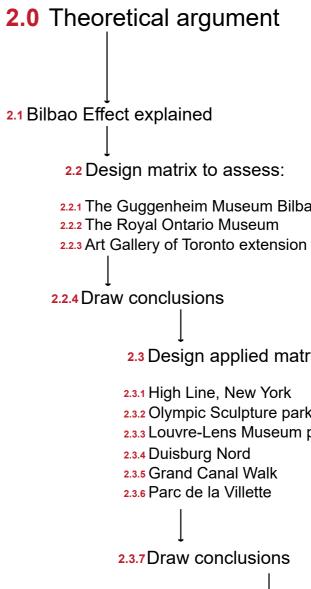
# 2 Theoretical argument





The following section of the dissertation comprises of a literature study deconstructing the Bilbao Effect. Once the Bilbao Effect has been clarified and understood, three architecture case studies will be investigated in terms of their successes and shortcomings (one of which will be the Guggenheim Museum Bilbao). After the case studies have been investigated and conclusions have been made, a new method will be designed



to deconstruct landscape architecture case studies. The landscape architecture projects will be selected from popular projects around the world which have successfully regenerated their precincts, essentially creating a 'Bilbao Effect' of their own. Conclusions drawn from the investigations will form the basis of principles to guide the design intervention in Pretoria West.

2.2.1 The Guggenheim Museum Bilbao

2.3 Design applied matrix to assess the:

2.3.1 High Line, New York 2.3.2 Olympic Sculpture park 2.3.3 Louvre-Lens Museum park 2.3.5 Grand Canal Walk 2.3.6 Parc de la Villette

2.3.7 Draw conclusions 2.4 Establish set of principles

#### Methodology

This section aims to answer the question, what is it about the Bilbao Effect that makes it so successful?

This section starts with a brief literature review on the Bilbao Effect and the Guggenheim Museum. To determine exactly what it is that makes the Bilbao Effect so successful, the Guggenheim Museum Bilbao (GMB) will be scrutinized along with two other buildings with similar intentions to the GMB (the Royal Ontario Museum and the Art Gallery of Toronto extension), in terms of regenerating their precinct. The study on the GMB and two more buildings are done to narrow down the scope of investigation for the next study, the most important study.

A method is designed to break down six landscape architectural projects in order to fully understand the Bilbao Effect in landscape architecture. The best way to draw objective and accurate conclusions from the case studies is to distil each case study into a set of quantifiable data. Once the data has been retrieved the data will be analysed.

This set of data must be designed purposefully in order for it to compare to other sets, essentially seeking differences and similarities between the sets of data. The resemblance of the data is thus essential to the study as the designed intervention in Pretoria West will be based on the findings of this chapter.

#### Limitations

Although this method attempts to represent the case studies in a clinical, non-biased manner, there are a few shortcomings. Very few research studies contain information linking the Bilbao Effect with landscape architecture. The three architectural case studies provided an easy choice as Argyle (2017) states that numerous authors consider them to mimic the Bilbao Effect. The landscape architecture case studies were chosen by the author after considering projects from around the world that have regenerated their precincts. Projects considered popular by both the public and designers were strongly considered before choosing the six projects. Projects (considered as precedents) within the landscape architecture profession were also considered.

The projects were scored according to quantifiable, tangible factors (such as proximity to transport nodes and the size of the landscape). The categories that include information regarding the physical design principles and the designer's approach were scored by the author according to his understanding of the project.

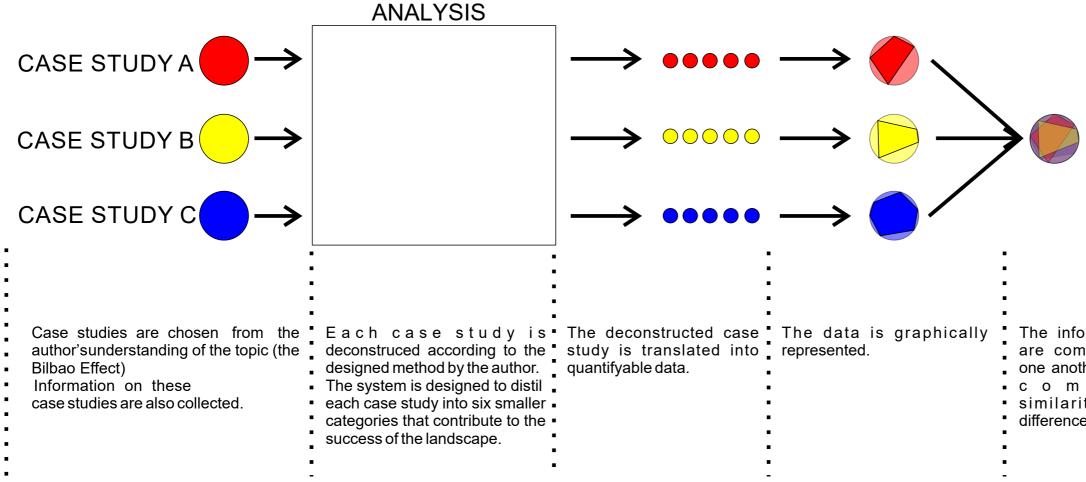


Figure 2.2: Flow chart explaining the process of deconstructing the various case studies

After every case study a list of references will represent the information used for that section.

#### 

pared to	The conclusions are made and can be applied to the site in Pretoria West.
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#### 2.1 The Bilbao Effect

The city of Bilbao was in a similar physical, cultural, and economic depression as Pretoria West finds itself in today. For some time, very little to no stakeholders have invested in the western quadrant of Pretoria as the energy of the city has moved to the east. Bilbao underwent a major transformation from a post-industrial city to a vibrant cultural and economically stable city. This was largely due to the masterpiece of a building called the Guggenheim Museum Bilbao design by Frank Gehry.

This dissertation will not only thoroughly explain the Bilbao effect, but will also greatly focus on the GMB, why is it a successful building, and why is it a good urban catalyst? Numerous writings, (Areso 2007), (Franklin 2016), (Gonzalez 2011), (Safdie 2010) focus on the physical effect the GMB has had on the Basque region, concurring on the fact that the Bilbao effect is a positive catalytic reaction that economically and culturally regenerated the city of Bilbao. This section will look at two buildings erected with the same intentions of regenerating a precinct and compare them to the GMB to reinforce conclusions.

This dissertation seeks to understand whether the Bilbao effect can be replicated in the form of a designed landscape in the suburb of Pretoria West. The majority of this section will thus focus on well-known landscape architectural projects that have managed to regenerate a post-industrial city/precinct i.e. transposing the Bilbao Effect to a landscape context.

"The city of Bilbao is situated on the banks of the Nervión, a tidal river. The climate in Bilbao is milder than in most other parts of the peninsula, rarely falling below freezing in winter, or rising above 35°C in summer. There is also more rain, which is a mixed blessing.

The green hills of Bilbao are a welcome relief after an extended stay in the dry plains in the south, but planning a day at the beach is more risky. The population of Bilbao is just over 372,000, but within the metropolitan area there are over 1,000,000 inhabitants. Bilbao is divided into eight district areas: Deusto, Uribarri, Otxarkoaga/Txurdinaga, Begoña,

Ibaiondo, Abando, Rekalde and Basurto/ Zorroza. The end of the nineteenth century and the early twentieth century witnessed the rise of Bilbao as an economic power within the Basque Country and Spain. Mining, shipbuilding, and other iron industries led its economy for several decades and attracted large numbers of inhabitants to the growing city." (Gil 2017)

The steel industry collapsed in the mid -1970's and 1980's and caused major social, economical and ecological problems (Gil 2017). In 1983 a catastrophic flood was seen as the last nail in the coffin (Gil 2017). The flood affected the entire Basque country, Burgos and Cantabria. Transportation, electricity and gas services, drinking water, food, telephone, and many other basic services were severely affected (Gil 2017). This catastrophe made the city rethink their strategy plan for the future of Bilbao. According to Gil (2017), multiple large-scale initiatives, ambitious unbuilt proposals, and remarkable built projects took place during this period that would culminate with the opening of the the Guggenheim Museum Bilbao on October 19, 1997.

According to Argyle (2017), Architects such as Eric Owen Moss, Daniel Libeskind, Patrik Schumacher and Jürgen Mayer all praise the GMB as a succesful building and urban catalyst. The researcher sides with the majority of critics, who consider that it is a successful, innovative, and pleasing building to look at. It was mentioned earlier that the regeneration of Bilbao due to the GMB is not debatable as it was a success. This is an undeniable fact. What is debatable is why the museum has attracted over 9 million visitors since opening in 1997. The building transformed Bilbao from a functional, modernist industrial city, to a more humanistic, accessible city.



Figure 2.3: Bilbao floods



Figure 2.4: Bilbao floods



Figure 2.5: Bilbao floods



Figure 2.6: Bilbao floods

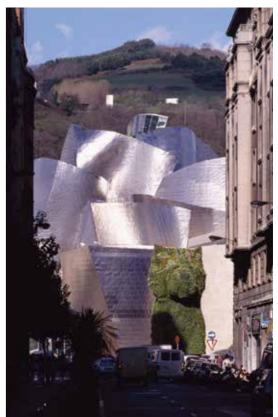
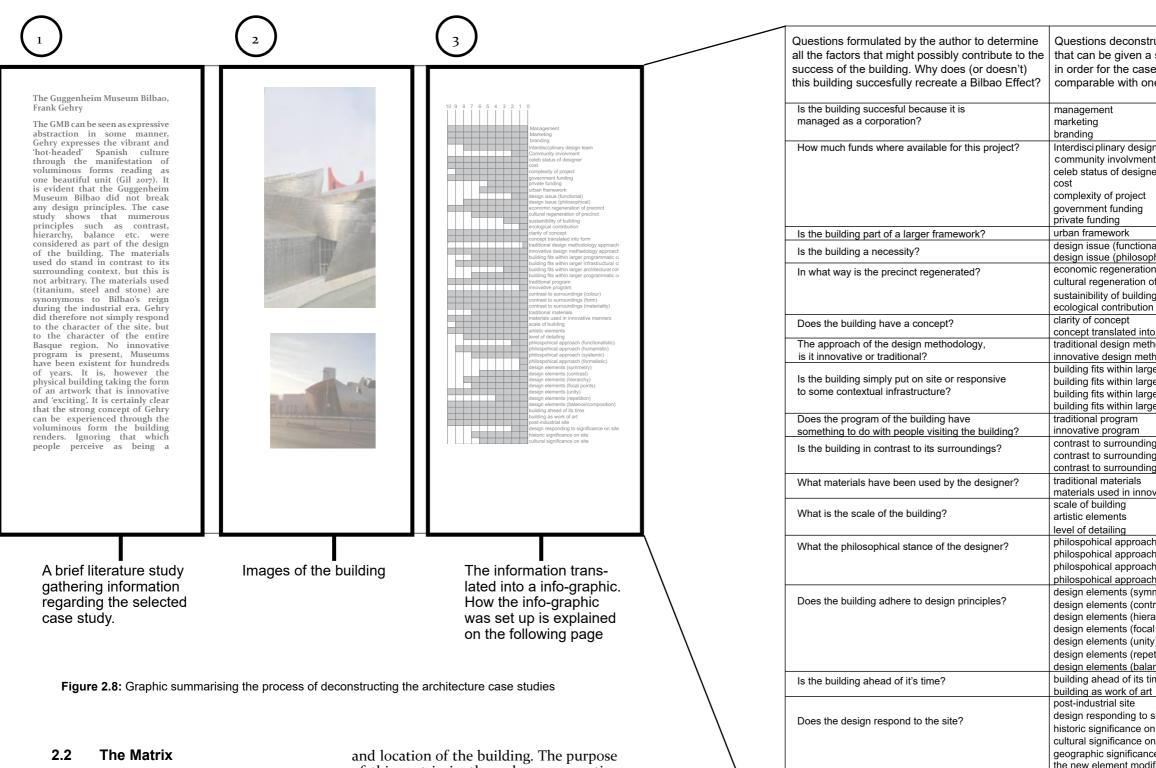


Figure 2.7: Modern day Bilbao



#### The Matrix

A matrix system was set up to graphically deconstruct the three buildings and all the stakeholders involved, to determine the factors contributing to the Bilbao Effect. Displayed in Figure 2.8 are all the factors that might play a role in the success of the building, ranging from the physical design of the building to the management and location of the building. The purpose of this matrix is, through a comparative analysis, to compare the different case studies and come to conclusions that will lead to a more complete, accurate matrix, for the landscape architecture case studies.

Is the building controversial?

Is the building an abstraction of some sort?

Questions deconstructed into factors that can be given a score out of 10	A s to e	each	n fa	cto	r ac	col	rdin	g to	o au	ithc	I
in order for the case studies to be comparable with one another			tan	din	•			esea	arcł		
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management	10 10	9 9	8 8	7 7	6 6	5 5	4	3	2	1	0
marketing branding	10	9	8	7	6	5	4	3	2	1	0
Interdisciplinary design team	10	9	8	7	6	5	4	3	2	1	0
community involvment	10	9	8	7	6	5	4	3	2	1	0
celeb status of designer	10	9	8	7	6	5	4	3	2	1	0
cost	10	9	8	7	6	5	4	3	2	1	0
complexity of project	10	9	8	7	6	5	4	3	2	1	0
government funding	10	9	8	7	6	5	4	3	2	1	0
private funding	10	9	8	7	6	5	4	3	2	1	0
urban framework	10	9	8	7	6	5	4	3	2	1	0
design issue (functional)	10	9	8	7	6	5	4	3	2	1	0
design issue (philosophical) economic regeneration of precinct	10	9	8	7	6	5	4	3	2	1	0
cultural regeneration of precinct	10	9	8	7	6	5	4	3	2	1	0
	10	9	8	7	6	5	4	3	2	1	0
sustainibility of building ecological contribution	10 10	9 9	8 8	7	6 6	5 5	4	3	2	1	0
clarity of concept	10	9	° 8	7	6	5	4	3	2	1	0
concept translated into form	10	9	8	7	6	5	4	3	2	1	0
traditional design methodology approach	10	9	8	7	6	5	4	3	2	1	0
innovative design methadology approach	10	9	8	7	6	5	4	3	2	1	0
building fits within larger programmatic context	10	9	8	7	6	5	4	3	2	1	0
building fits within larger infrastructural context	10	9	8	7	6	5	4	3	2	1	0
building fits within larger architectural context	10	9	8	7	6	5	4	3	2	1	0
building fits within larger programmatic context	10	9	8	7	6	5	4	3	2	1	0
traditional program	10	9	8	7	6	5	4	3	2	1	0
innovative program	10 10	9	8	7 7	6 6	5 5	4	3	2	1	0
contrast to surroundings (colour)	10	9	8	7	6	5	4	3	2	1	0
contrast to surroundings (form) contrast to surroundings (materiality)	10	9	8	7	6	5	4	3	2	1	0
traditional materials	10	9	8	7	6	5	4	3	2	1	0
materials used in innovative manners	10	9	8	7	6	5	4	3	2	1	0
scale of building	10	9	8	7	6	5	4	3	2	1	0
artistic elements	10	9	8	7	6	5	4	3	2	1	0
level of detailing	10	9	8	7	6	5	4	3	2	1	0
philospohical approach (functionalistic)	10	9	8	7	6	5	4	3	2	1	0
philospohical approach (humanistic)	10	9	8	7	6	5	4	3	2	1	0
philospohical approach (systemic)	10	9	8	7	6	5	4	3	2	1	0
philospohical approach (formalistic)	10	9	8	7	6	5	4	3	2	1	0
design elements (symmetry)	10	9	8	7	6	5	4	3	2	1	0
design elements (contrast)	10 10	9 9	8	7	6 6	5 5	4	3	2	1	0
design elements (hierarchy)	10	9	8	7	6 6	5 5	4	3	2	1	0
design elements (focal points) design elements (unity)	10	9	0 8	7	6	5	4	3	2	1	0
design elements (repetition)	10	9	8	7	6	5	4	3	2	1	0
design elements (balance/composition)	10	9	8	7	6	5	4	3	2	1	0
building ahead of its time	10	9	8	7	6	5	4	3	2	1	0
building as work of art	10	9	8	7	6	5	4	3	2	1	0
post-industrial site	10	9	8	7	6	5	4	3	2	1	0
design responding to significance on site	10	9	8	7	6	5	4	3	2	1	0
historic significance on site	10 10	9 9	8 8	7 7	6	5 5	4	3 3	2	1	0
cultural significance on site	10	9	8	7	6 6	5 5	4	3	2	1	0
geographic significance of site	10	9	0 8	7	6	5 5	4	3	2	1	0
the new element modifies the elements around it	10	9	8	7	6	5	4	3	2	1	0
existing elements are enhanced or transformed	10	9	8	7	6	5	4	3	2	1	0
the catalytic reaction does not damage its context	10	9	8	7	6	5	4	3	2	1	0
an understanding of the context did the building challenge architecture	10	9	8	7	6	5	4	3	2	1	0
organic forms	10	9	8	7	6	5	4	3	2	1	0
artistic forms	10	9	8	7	6	5	4	3	2	1	0
forms easily composed	10	9	8	7	6	5	4	3	2	1	0
strong,rigid lines	10	9	8	7	6	5	4	3	2	1	0
building is an abstraction of existing phenomenon	10	9	8	7	6	5	4	3	2	1	0
building is abstraction of an idea/ideaology	10	9	8	7	6	5	4	3	2	1	0

#### 2.1.1 The Guggenheim Museum Bilbao, Frank Gehry

The GMB can be seen as expressive abstraction in some manner, Gehry expresses the vibrant and 'hot-headed' Spanish culture through the manifestation of voluminous forms reading as one beautiful unit (Gil 2017). It is evident that the Guggenheim Museum Bilbao did not break any design principles. The case study shows that numerous principles such as contrast, hierarchy, balance etc. were considered as part of the design of the building. The materials used do stand in contrast to its surrounding context, but this is not arbitrary. The materials used (titanium, steel and stone) are synonymous with Bilbao's reign during the industrial era (Safdie 2010). However, Gehry didn't simply respond to the character of the site, but to the character of the entire Basque region. No innovative program is present, museums have been existent for hundreds of years. It is, however, the physical building taking the form of an artwork that is innovative and 'exciting'. It is certainly clear that the strong concept of Gehry can be experienced through the voluminous form that the building renders (Safdie 2010).

Ignoring that which people perceive as being a beautiful building, one looks at the GMB and thinks "how on earth was this created?" It is unlikely that another person could have come up with these shapes; the overall complexity of the project is certainly ahead of its time. It must be admired for something out of this world yet it is so much in place (Gil 2017).



Figure 2.9: the GMB



Figure 2.10: the GMB

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Figure 2.11: Info-graphic deconstructing the Guggenheim Museum Bilbao

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#### 2.1.2 The Royal Ontario Museum, Daniel Libeskind

The extension to the Royal Ontario Museum was chosen as a second case study as many authors compared the GMB to the Royal Ontario Museum (ROM) as the intention was to regenerate not only the old museum, but the entire suburb. The reason the the ROM is compared to the GMB is that the ROM did not do a very successful job as an urban catalyst (Safdie 2010). A comparison of the two case studies will most definitely highlight the successes and failures of the two buildings.

At first glance of the building, one can tell a lot about it. Similar to the GMB the ROM also seems out of place as it competes for attention (Safdie 2010). The big difference, however, is that the ROM feels out of place as well. Not only did the community of Toronto despise the shapes of Libeskind, architectural writings do not assess the building favourably either (Safdie 2010). Libeskind challenged the way in which knowledge and artefacts were displayed throughout the centuries in a very linear fashion (as knowledge and artefacts were acquired over the years) (Safdie 2010). He did this by attaching "crystals" to a very old classical building. Yes, it is just as flashy as the GMB, but the composition of forms and lines are not done in a very harmonious way. Toronto is a city that likes to do things quietly and to be 'in the background' (Safdie 2010). Again, the ROM does not express or respect the approach of the local people. Also, the "crystals" shooting out of the building cannot compare to the complexity of the GMB's voluminous, soft lines. The ROM lacks the humanistic elements mentioned earlier.



Figure 2.12: The ROM



Figure 2.13: The ROM

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Figure 2.14: Info-graphic deconstructing the Royal Ontario Museum

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#### 2.1.3 Art Gallery of Toronto extension, Frank Ghery

The last architectural case study was the extension to the Art Gallery of Toronto (AGO). Both projects (the AGO and ROM) involved the intervention of a contemporary extension to a historic Museum. Although the building takes on the shape of a crystal floating through the city, it is one of Gehry's most subtle works of architecture to that time. Gehry's famous manipulation of materials is prominent in this building. Probably the most renowned feature of the building is the interior timber staircase wandering through space. Visitors to the museum have described the space as being unexpectedly comfortable, in contrast to the ROM's illegible and wasted interior space. The glass façade is sloped down towards the bottom for pedestrians to experience the reflection of the Victorian and Georgian architecture across the street. Rather than shouting, the glass façade invites one into the gallery.

Once entered, the user experiences a child-like narrative, meandering through the timber staircase and flowing through the warm spaces. This building takes a stance in its surroundings without taking anything away from the adjacent historic buildings. It is a building that caters for the user experience rather than making a statement. The AGO's annual visitors echo the success of the building.



Figure 2.15: The Art Gallery of Toronto extension



Figure 2.16: The Art Gallery of Toronto extension

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All three buildings scored high

Figure 2.18: Highlighted are focal points of the more advanced matrixes for the landscape studies to follow

#### 2.1.4 Findings

Derived from a synthesis of the data, in order for the building to recreate the Bilbao Effect, the following is required:

- It should be managed as a business in terms of the management, branding, and marketing of the building (and what happens inside the building).

- The building must be designed by a "celebrity" designer with a large amount of fees available for the project.

- A strong concept, clearly translated into the form of the building (not necessarily translated into the program).

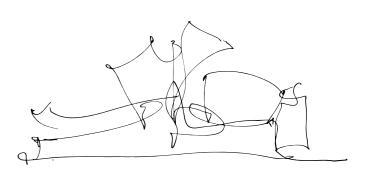
- The program does not need to be an innovative program, but rather the experience thereof should be innovative.

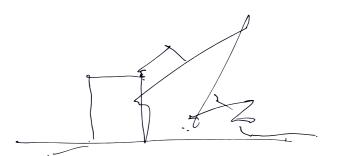
- It needs to stand in contrast to its surroundings in terms of colour, form, and materiality.

- It does not necessarily have to consist of new, innovative materials, but rather consist of traditional materials that are used in innovative manners.

- It challenges architecture in some manner, whether it is criticized or praised by pundits.

- It must be an abstraction of some sort.





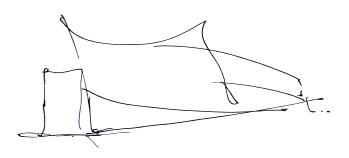


Figure 2.19: The GMB Figure 2.20: The ROM Figure 2.21: The AGO

#### Landscape architecture case 2.3 studies

The case studies conducted on landscape architecture projects were selected because of their similarities to the aim of the GMB to regenerate old post-industrial sites/cities. The criteria of the landscape projects differ slightly from the architectural case studies, as the intentions of the projects were to regenerate their precincts. The landscape projects will be scrutinized in more depth than the previous case studies. Figure 2.22 illustrates the steps taken to analyze the landscape projects.

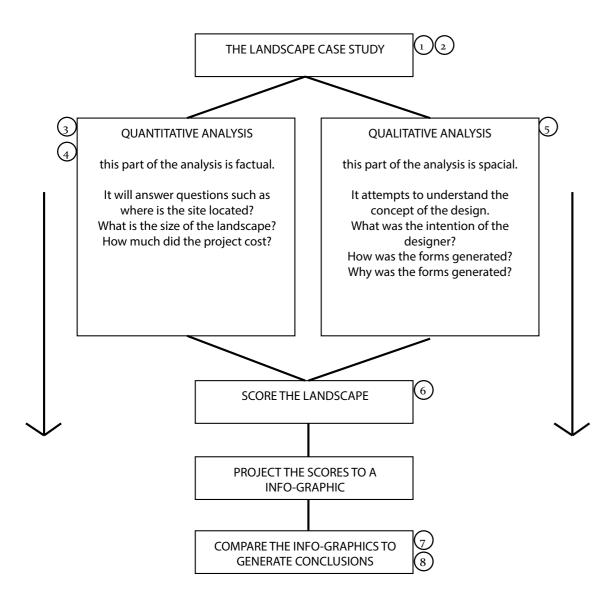
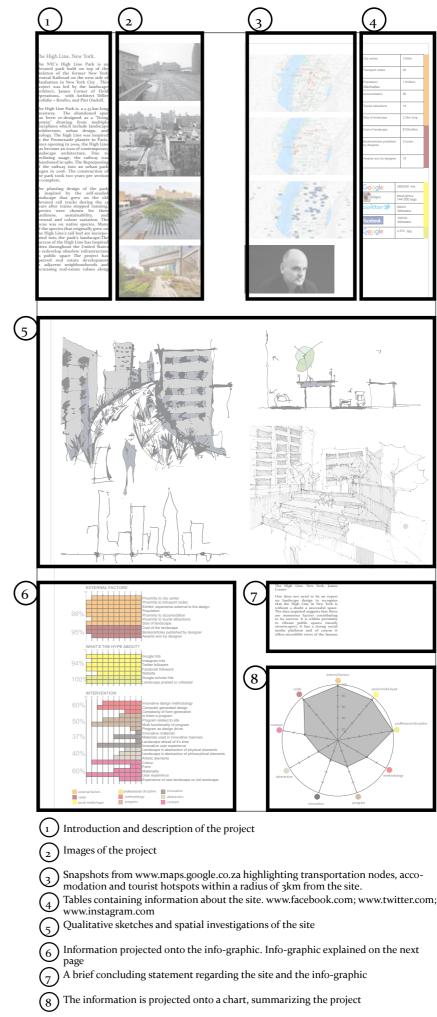


Figure 2.22 (top): Flow diagram explaining the process of analysing the landscape case studies Figure 2.23 (right): Highlighted are the steps followed for conducting each landscape architecture case study



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#### km Proximity to city center

number of bus, metro, train or tram stops Proximity to transport nodes authors discretion Exhibit, experience external to the design million Population as found on www.booking.com Proximity to accomodation as found on www.maps.google.com Proximity to tourist attractions hectares Size of the landscape

#### million \$ Cost of the landscape

Books/articles published by designer

Awards won by designer

# whats the hype about?

social media hype	2.8					1.4					Q	1
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#### million Google hits

amount of images with the hashtag #(name of park) Instagram hits

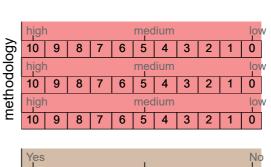
amount of people following the official page of the park Twitter followers

amount of people following the official page of the park Facebook followers

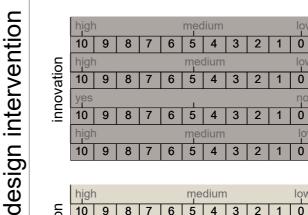
Does the park have a website?

#### Google Scholar hits

according to the various authors Landscape praised or criticised













contrast



the amount of new, advanced processes followed (design approach)

#### Innovative design methodology

high computer (technological) input to design

#### Computer generated design

#### Complexity of form generation

#### Is the design based around the program?

the influence the program had on the physical design Program related to site

the amount of programs the site can cater for

#### Multi-functionality of program

the program's influence on the concept development

#### Program as design driver

amount of new, advanced materials (apposed to traditional materials)

#### Innovative materials

amount of new, advanced materials joining and composition of materials Materials used in innovative manners

#### Landscape ahead of it's time

traditional program on site experienced in a new and advanced manner

#### Innovative user experience

contains abstracted, re-interpreted elements from the site or the surrounding area Landscape is abstraction of physical elements

contains abstracted, re-interpreted elements derived from an idea, ideology, topic or paradigm

Landscape is abstraction of philosophical elements amount of artistic elements within the landscape Artistic elements

contrast relative to it's surroundings

#### Contrast: Colour

contrast relative to it's surroundings Contrast: Form

#### contrast relative to it's surroundings

Contrast: Materiality contrast relative to it's surroundings

Contrast: User experience

#### Experience of new landscape vs old landscape

# 2.3.1 The High Line, New York, James Corner

The NYC's High Line Park is an elevated park built on top of the skeleton of the former New York Central Railroad on the west side of Manhattan in New York City. This project was led by the landscape architect, James Corner, of Field Operations, with Architect Diller Scofidio and Renfro, and Piet Oudolf.

The High Line park is a 2.33 km long greenway. The abandoned spur has been re-designed as a "living system," drawing from multiple disciplines which include landscape architecture, urban design, and ecology (Corner 2014). The high Line was inspired by the Promenade plantèe in Paris.

Since opening in 2009, the High Line has become an icon of contemporary landscape architecture (Keller 2016). Due to declining usage, the railway was abandoned in 1980. The repurposing of the railway into an urban park began in 2006. The construction of the park took two years per section to complete (Keller 2016).

The planting design of the park is inspired by the self-seeded landscape that grew on the old elevated rail tracks during the 25 years after trains stopped running (Corner 2014). Species were chosen for their hardiness, sustainability, and textural and colour variation. The focus was on native species. Many of the species that originally grew on the High Line's rail bed are incorporated into the park's landscape (Corner 2014).

The success of the High Line has inspired cities throughout the United States to redevelop obsolete infrastructure as public space (Keller 2016). The project has spurred real estate development in adjacent neighbourhoods and increased real-estate values along the route (Keller 2014). Since September 2014, the park attracted nearly five million visitors annually (Keller 2016).





Figure 2.26: Image of the site prior to the intervention



Figure 2.27: Image of the site after the landscape intervention



Figure 2.28: Image of the site after the landscape intervention



Figure 2.29: Transportation nodes near the site (3km radius)

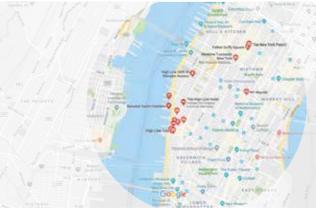


Figure 2.30: Tourist hotspots near the site (3km radius)

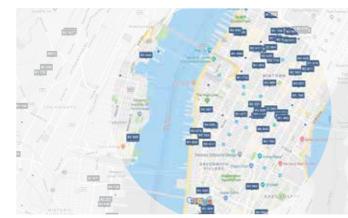


Figure 2.31: Accomodation near the site (3km radius)



Figure 2.32: James Corner

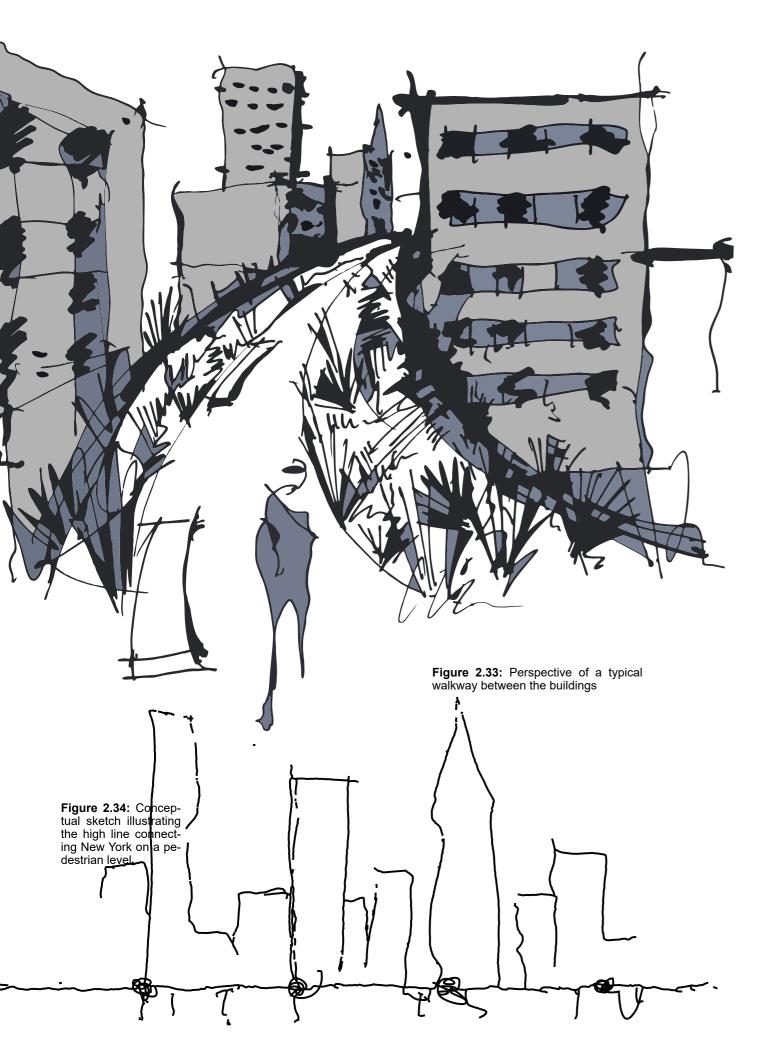
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LONG ISLAND C.TY
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1	City center	1500m	
2	Transport nodes	32	
3	Population Manhattan	1,664,727	
4	Accomodation	56	
5	Tourist attractions	16	
6	Size of landscape	2.3km long	
7	Cost of landscape	\$152million	
8	Books published by designer	5 books	
9	Awards won by designer	16	



10	Google	2 880 000 hits	
11	Indagram	#thehighline 144 000 tags	
12	twitter	89 000 followers	
13	facebook	192 000 followers	
14	Google	4 570 hits	

- 1 https://www.maps.google.co.za
- 2 https://www.maps.google.co.za
- 3 https://www.citypopulation.de/php/usa-newyorkcity.php
- 4 https://www.maps.google.co.za
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- 6 https://www.google.co.za
- 7 https://www.nytimes.com/2009/06/09/arts/design/09highline-RO.html
- 8 https://www.books.google.co.za
- 9 https://archinect.com/jcfo
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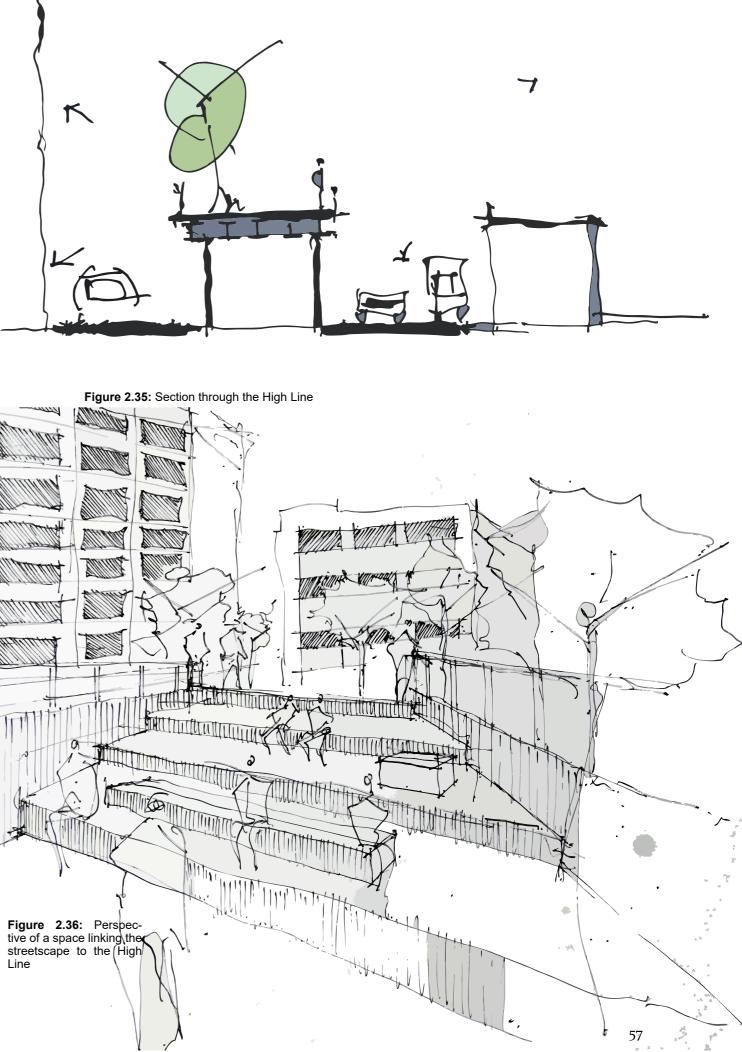
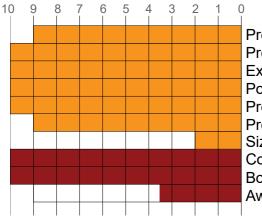


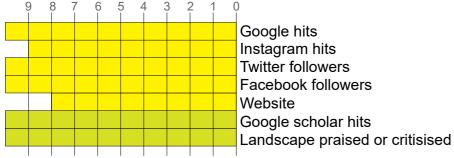
Figure 2.36: Perspec-tive of a space linking the streetscape to the High Line

#### **EXTERNAL FACTORS**

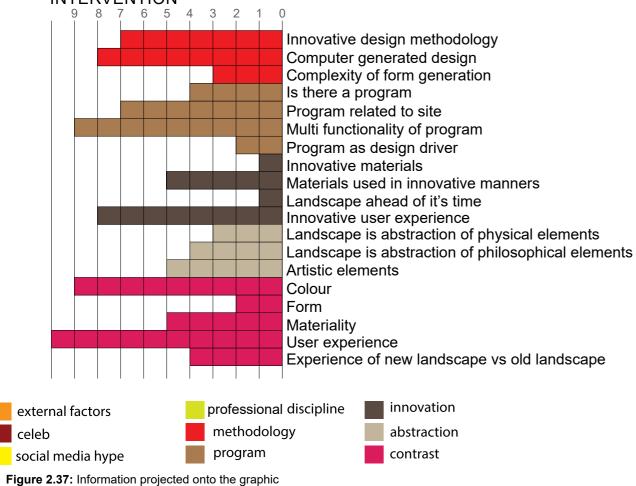


Proximity to city center Proximity to transport nodes Exhibit, experience external to the design Population Proximity to accomodation Proximity to tourist attractions Size of landscape Cost of the landscape Books/articles published by designer Awards won by designer

#### WHAT'S THE HYPE ABOUT?



#### INTERVENTION



One does not need to be an expert on landscape design to recognise that the High Line in New York is without a doubt a successful space. The data acquired suggests that there are numerous factors contributing to its success. It is within proximity to vibrant public spaces (mostly streetscapes), has a strong social media platform, and of course, it offers incredible views of the famous New York skyline. The celebrity status of James Corner placed the project within the contemporary discussion of landscape architecture.

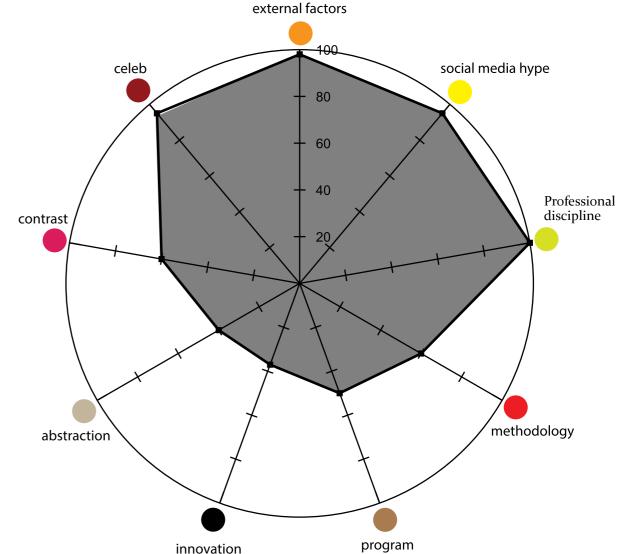


Figure 2.38: Info-graphic of the site

### 2.3.2 Olympic Sculpture Park, Seattle, Weiss/Manfredi

The Olympic Sculpture Park is an open air sculpture park located in Seattle on the last undeveloped waterfront property (Architect Magazine 2012). It was an industrial site sliced by train tracks and an arterial road. The design uses an uninterrupted Z-shaped green platform to connect three separate sites; a dense and temperate evergreen forest; a deciduous forest of seasonally changing characteristics; and a shoreline garden including a series of new tidal terraces for salmon habitat and salt water vegetation (Architect Magazine 2012). The park is elevated above sea level and descends forty feet to the water. Magnificent views of the Seattle skyline and Elliot Bay can be enjoyed from the park (Minner 2011).

The site was formerly owned by Union Oil of California (Unocal) and used as an oil transfer facility (Minner 2011). Over 120,000 tons of contaminated soil had to be removed and re-filled with clean soil before construction of the park could begin. The water strategy is planned in such a way that landforms and plantings collaborate to direct, collect, and cleanse storm water as it moves through the site before being discharged into Elliott Bay (Minner 2011).

Minner (2011) of Archdaily describes the park as follows: "As a "landscape for art", the Olympic Sculpture Park defines a new experience for modern and contemporary art outside the Seattle Art Museum walls; (the park is part of the museum). The topographically varied park provides diverse settings for sculpture of different sizes. Deliberately open-ended, the design invites "new interpretations of art and environmental engagement, reconnecting the fractured relationships of art, landscape, and urban life." (Minner 2011)



Figure 2.39: Image of the site prior to the intervention



Figure 2.40: Image of the site

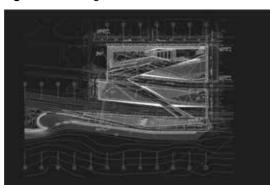


Figure 2.41: Autocad drawing of the design



Figure 2.42: Image of the site



Figure 2.43: Transportation nodes near the site (3km radius)



Figure 2.44: Tourist hotspots near the site (3km radius)

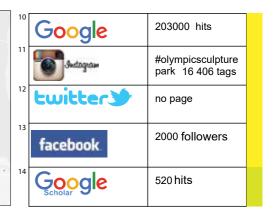


Figure 2.45: Accomodation near the site (3km radius)

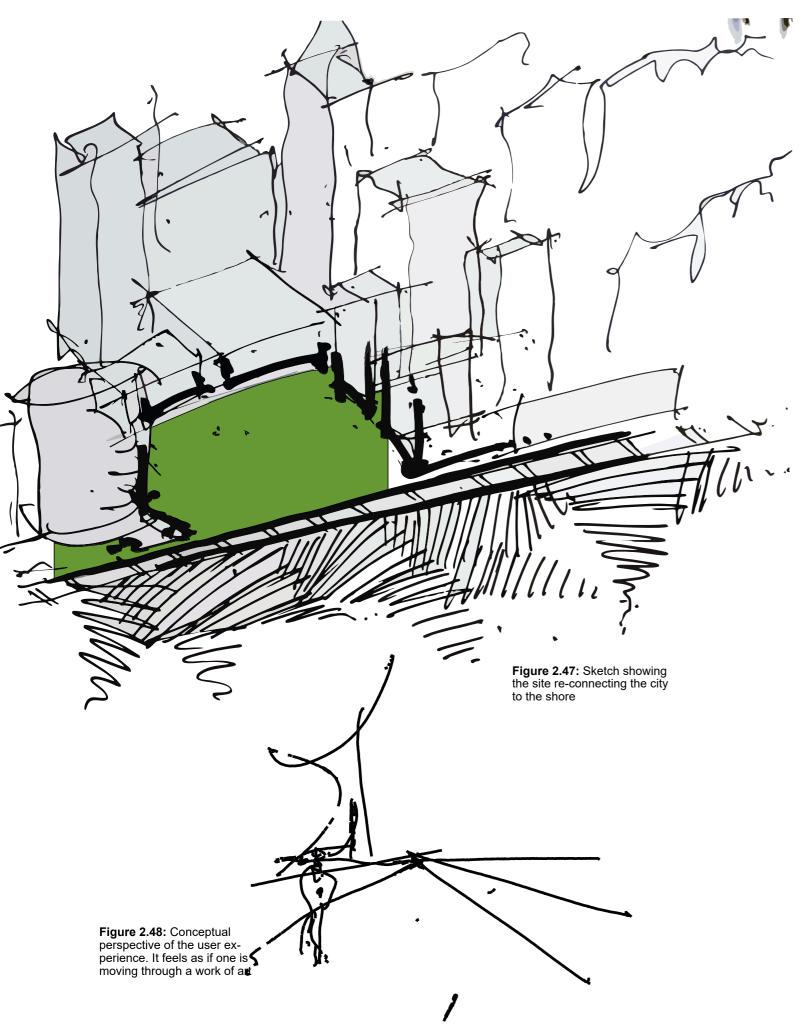


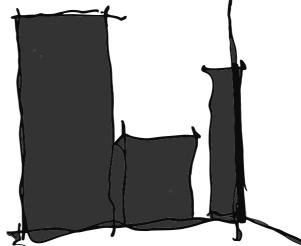
Figure 2.46: Marion Weiss and Michael Manfredi

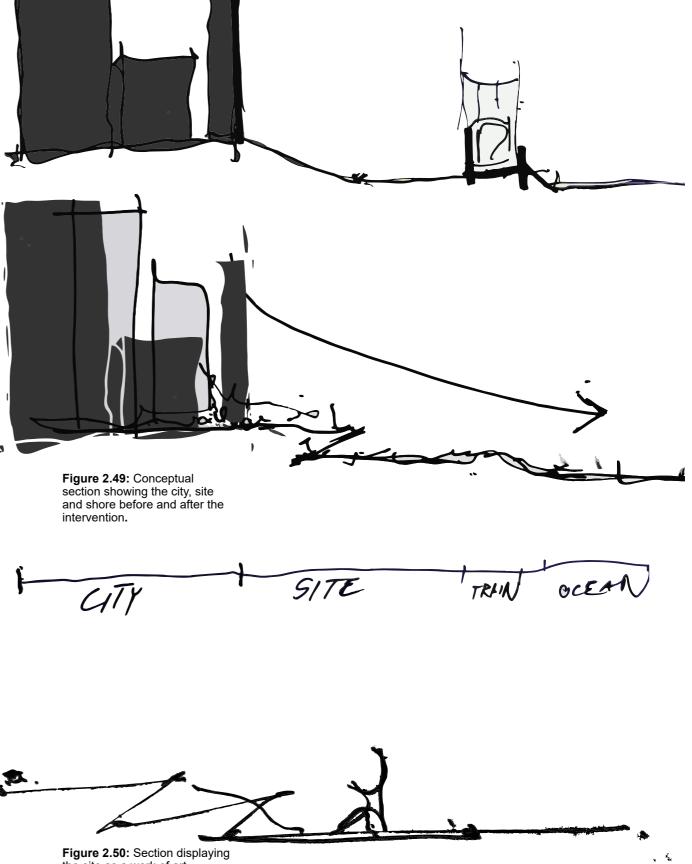
1	City center	2000m	
2	Transport nodes	17	
3	Population Seattle (City in King county)	724 745	
4	Accomodation	26	
5	Tourist attractions	12	
6	Size of landscape	3.4ha	
7	Cost of landscape	\$85 000 000	
8	Books published by designer	more than 22	
9	Awards won by designer	more than150	



- 1 https://www.maps.google.co.za
- 2 https://www.maps.google.co.za
- 3 https://www.citypopulation.de/php/usa-washington.php?cityid=5363000
- 4 https://www.maps.google.co.za
- 5 https://www.maps.google.co.za
- 6 landscapevoice.com/olympic-sculpture-park/
- 7 landscapevoice.com/olympic-sculpture-park/
- 8 https://www.books.google.co.za
- 9 http://www.weissmanfredi.com/awards/
- 10 https://www.google.co.za
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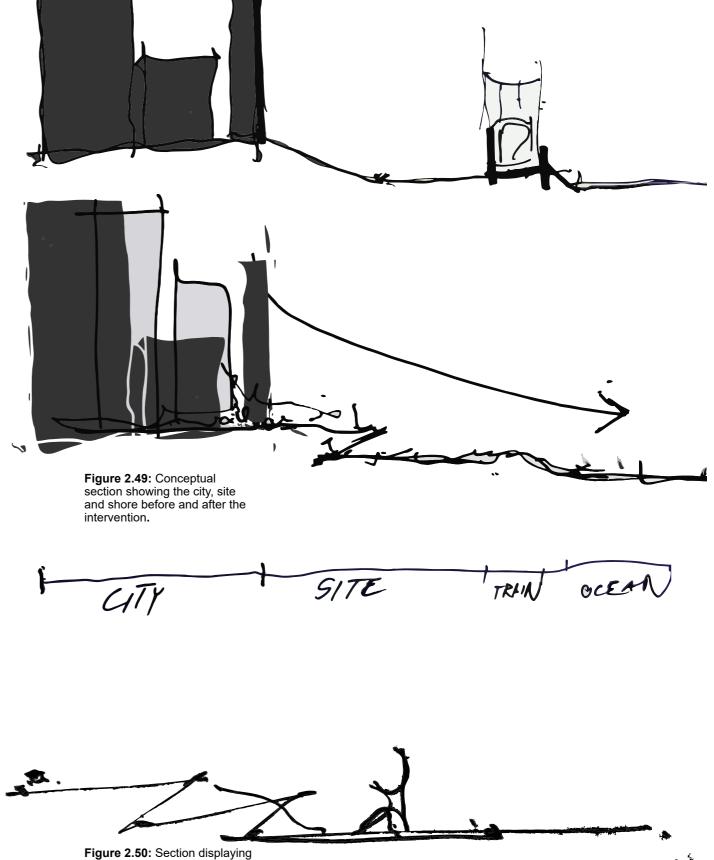
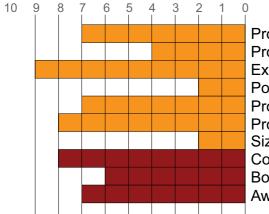


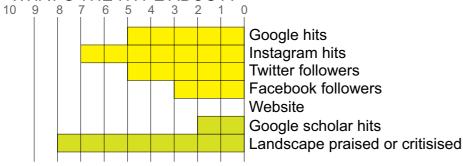
Figure 2.50: Section displaying the site as a work of art

#### **EXTERNAL FACTORS**

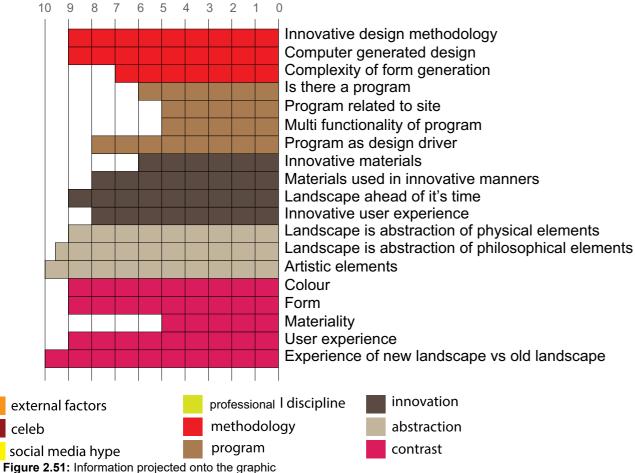


Proximity to city center Proximity to transport nodes Exhibit, experience external to the design Population Proximity to accomodation Proximity to tourist attractions Size of landscape Cost of the landscape Books/articles published by designer Awards won by designer

#### WHAT'S THE HYPE ABOUT?



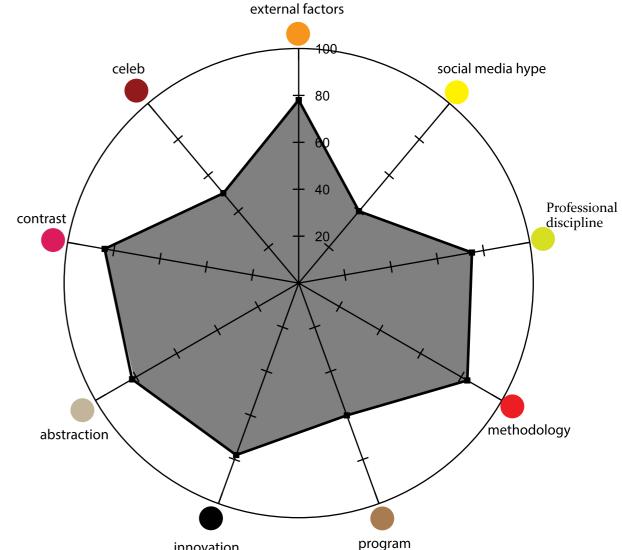
#### INTERVENTION



The Olympic Sculpture park is a technical, innovative landscape connecting Seattle to the shoreline. There are external factors at work, as the landscape is filled with contemporary pieces of artwork. According to the data, the Sculpture Park is a very well rounded off project.

This project can be seen as a precedent in terms of the technical resolution of the major level differences.

One of the intentions of the park is to guide the user through a 'sculpture' of a landscape rather than simply displaying the prefabricated sculptures.



innovation Figure 2.52: Info-graphic of the site

# 2.3.3 Louvre-Lens Museum Park, Lens, Catherine Mosbach

The Louvre-Lens is an extension of the Louvre, Paris. The museum is built on a 20 hectare wasteland that was originally a coal mine until the 1960's (Rosenfield 2012). The museum consists of a 360 meter long steel and glass structure surrounded by an exterior park (Rosenfield 2012). The site has a slight elevation as a result of excess fill from the mine.

The Louvre-Lens Museum Park is situated near the northern border of France in order to be accessible for English, Belgian, and German tourists. Catherine Mosbach, the Landscape Architect describes the park at the Louvre-Lens as follows: "Landscaped setting which extends the programs of the museum outside the wall. It is the place for cultural programming, animation and popular gathering in connection with the activities of the museum. Connection between museum, city and territory"



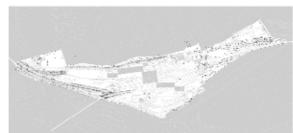


Figure 2.54: Autocad drawing of the design



Figure 2.55: Arial image of the site



Figure 2.56: Image of the site



Figure 2.57: Transportation nodes near the site (3km radius)



Figure 2.58: Tourist hotspots near the site (3km radius)



Figure 2.59: Accomodation near the site (3km radius)



Figure 2.60:Catherine Mosbach

1	City center	1900m	
2	Transport nodes	3	
3	Population Lens	30 413	
4	Accomodation	3	
5	Tourist attractions	6	
6	Size of landscape	25ha	
7	Cost of landscape	16 500 000 euros	
8	Books published by designer	2	
9	Awards won by designer	8	

10	Google	281 000 hits	
11	Indagram	#louvrelensmuse um 711 tags	
12	twitter	23 000 followers	
13	facebook	38 000 followers	
14	Google	133 hits	

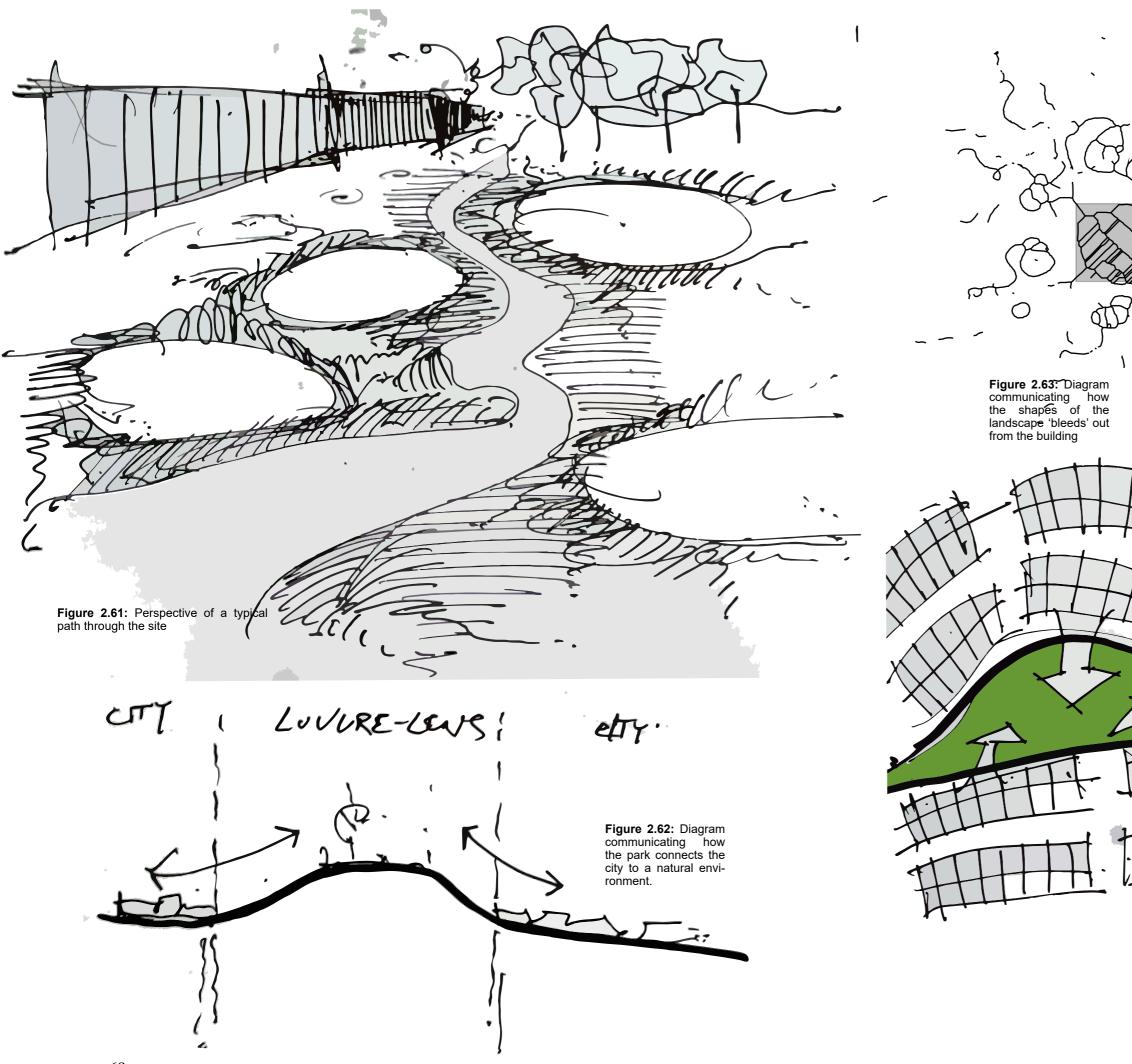
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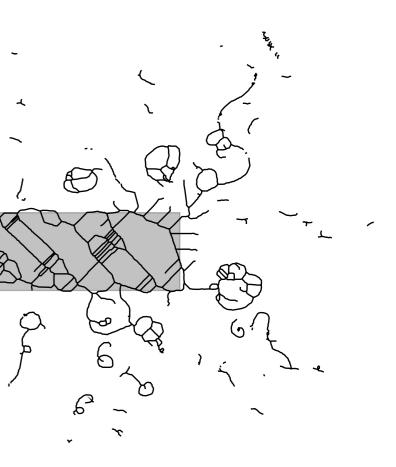
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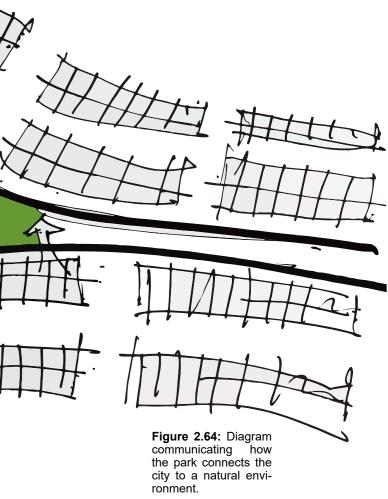
3 https://www.citypopulation.de/php/france-pasdecalais.php?cityid=62498

4 https://www.maps.google.co.za

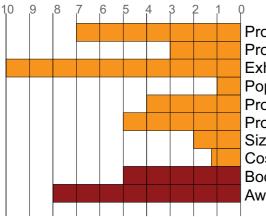
- <sup>5</sup> https://www.maps.google.co.za
- 6 https://land8.com/museum-park-louvre-lens-shows-us-the-potential-of-coal-mines/
- 7 https://www.publicspace.org/works/-/project/h101-louvre-lens-museum-park
- 8 https://www.books.google.co.za
- 9 https://www.google.co.za
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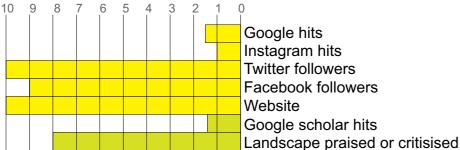


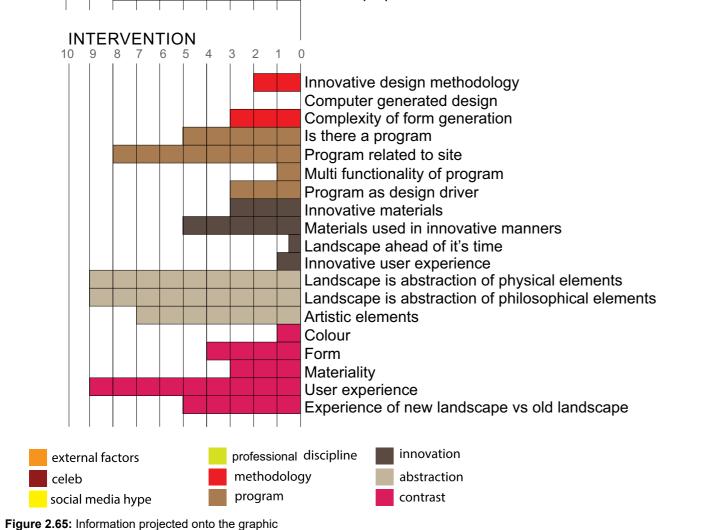
#### **EXTERNAL FACTORS**



Proximity to city center Proximity to transport nodes Exhibit, experience external to the design Population Proximity to accomodation Proximity to tourist attractions Size of landscape Cost of the landscape Books/articles published by designer Awards won by designer

#### WHAT'S THE HYPE ABOUT?





The Louvre-Lens Museum Park is a more subtle landscape, exposing the relicts of the previous site activities (a mining belt). One might argue that people will visit the site only to get to the Louvre museum, but the subtlety of the intervention compliments both the architecture and the surrounding natural environment. The park stands in contrast to its surroundings through the intimate natural spaces it creates via meandering paths through the forest. Figure 2.20 show that although the stance of the park is subtle it is a well balanced design, measured by the number of people attracted to the site.

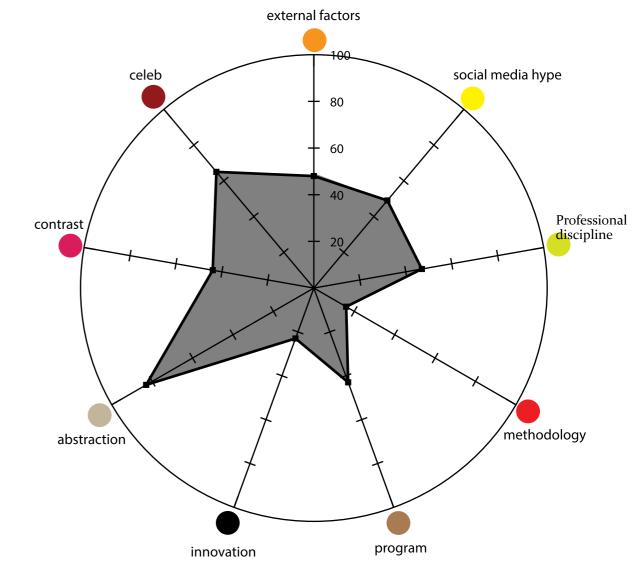


Figure 2.66: Info-graphic of the site

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#### 2.3.4 Duisburg Nord Landschaft Park, Duisburg, Peter Latz

Landschafts Park is a public park located in Duisburg, Meiderich, Germany. It was designed by Peter Latz of Latz + Partner. The aim of this park is to heal and understand the industrial past, rather than trying to reject it. The park is built on an old abandoned coal and steel production plant. Since the site was abandoned in 1985, the area was significantly polluted. New functions were found for the old structures on the site.

The concrete bunkers create a space for intimate gardens. The old gas tanks have become pools for scuba divers. Concrete walls are used by rock climbers. The most central place of the factory, the middle of the former steel mill, had been made into a piazza. The former sewage canal is used as a method of cleansing the park. This park is a re-representation of the past; the park itself is a living museum.





Figure 2.68: Plan of the site



Figure 2.69: Image of the site



Figure 2.70: Image of the site



Figure 2.71: Transportation nodes near the site (3km radius)

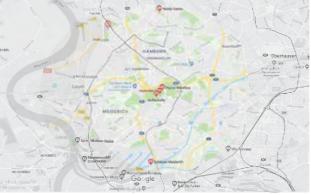


Figure 2.72: Tourist hotspots near the site (3km radius)



Figure 2.73: Accomodation near the site (3km radius)



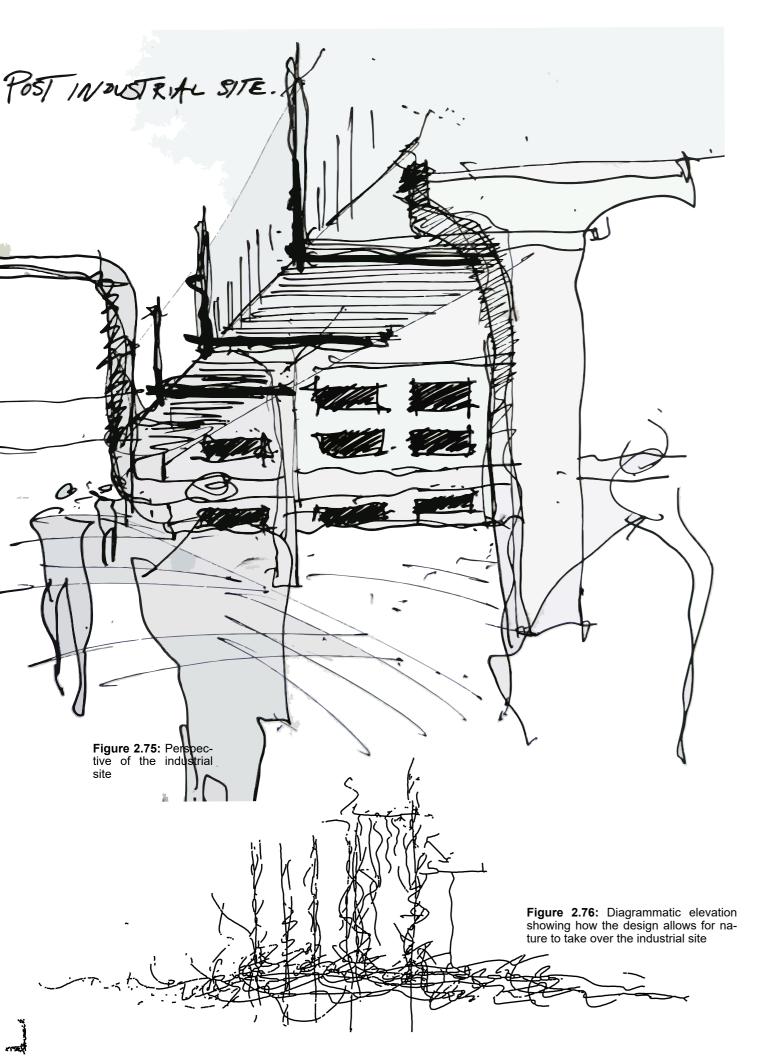
Figure 2.74: Peter Latz

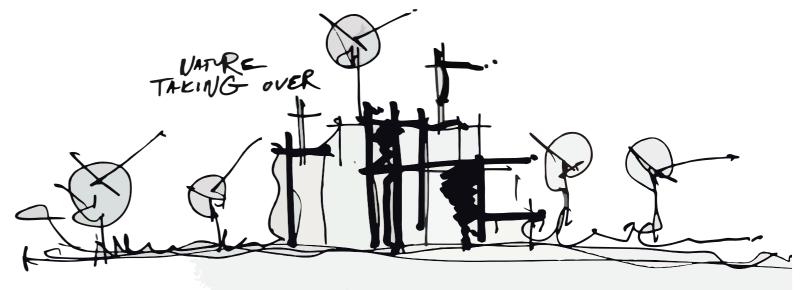
1	City center	1900m	
2	Transport nodes	4	
3	Population Duisburg	502 634	
4	Accomodation	4	
5	Tourist attractions	5	
6	Size of landscape	230ha	
7	Cost of landscape	100 000 000\$	
8	Books published by designer	66	
9	Awards won by designer	24	

10	Google	184 000 hits	
11	Indagram	#duisburgnordlan dscaftpark 43 tags	
12	twitter	812 followers	
13	facebook	16 768 followers	
14	Google	767 hits	

1 https://www.maps.google.co.za

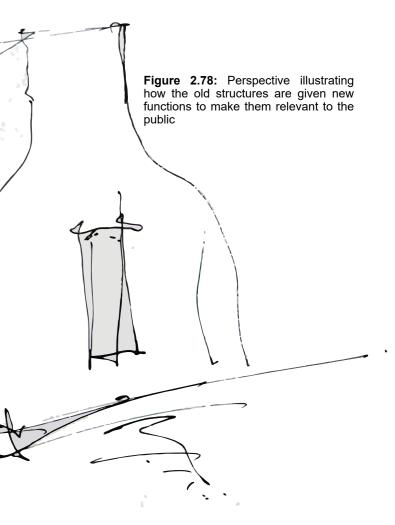
- 2 https://www.maps.google.co.za
- 3 https://www.citypopulation.de/php/germany-duisburg.php
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- <sup>6</sup> https://rmitallchange.weebly.com/north-duisburg-landscape-park.html
- 7 www.landezine.com/index.php/2011/08/post-industrial-landscape-architecture/ 8 https://www.books.google.co.za
- 9 https://www.latzundpartner.de/en/buero/auszeichnungen/?page=2
- 10 https://www.google.co.za
- 11 https://www.instagram.com
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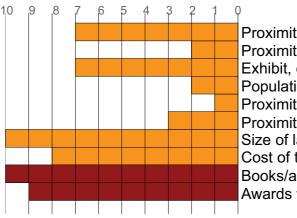


**Figure 2.77:** Diagrammatic elevation showing how the design allows for nature to take over the industrial site

VEN FONCTIONS TO OLD INDUSTRIAL SITES-16  $\mathcal{P}$ 

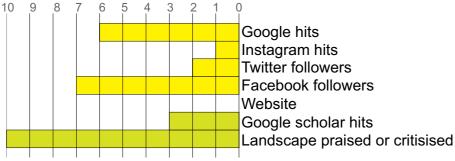


#### **EXTERNAL FACTORS**

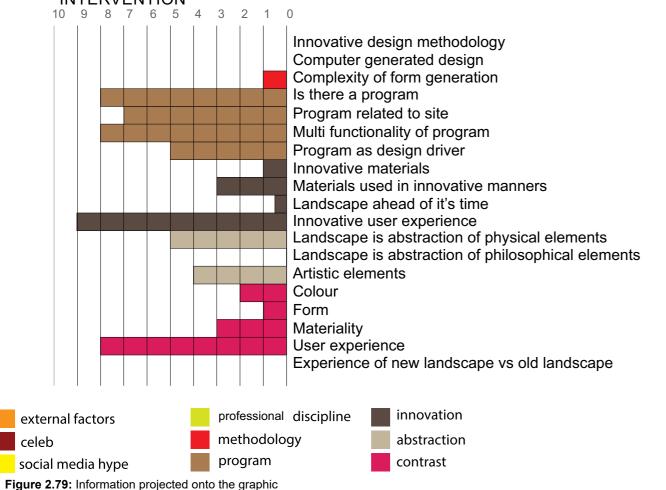


Proximity to city center Proximity to transport nodes Exhibit, experience external to the design Population Proximity to accomodation Proximity to tourist attractions Size of landscape Cost of the landscape Books/articles published by designer Awards won by designer

#### WHAT'S THE HYPE ABOUT?



#### INTERVENTION



Duisburg Nord Landscape Park is an excellent example of making a few alterations to an existing gas plant to not only remediate the ecological nature of the site, but to create public space for the people of Duisburg. Not a very innovative approach was followed, but nonetheless the project was executed to perfection. The site sits in stark contrast to its surroundings as it creates a space to connect the people with naturalized environments.

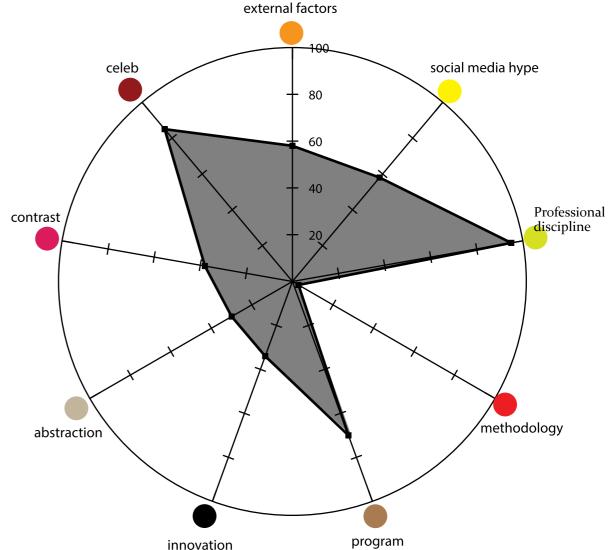


Figure 2.80: Info-graphic of the site

#### 2.3.5 Grand Canal Square, Dublin, Martha Schwartz

Grand Canal Square forms the centerpiece of the Dublin Docklands' emblematic revitalization project. The project was completed in 2007 (Krzykowski 2008). The square is situated on the banks of the Grand Canal, in front of the new Cultural Arts Performance Centre designed by Studio Daniel Libeskind (Krzykowski 2008).

Granite paved paths criss-crosses the Grand Canal Square allowing movement in any possible direction, and also enabling the square to host major public events such as festivals and performances (Krzykowski 2008).

The idea of the red stroke is to represent a red carpet rolled out from the canal into the site's main theatre (WAN 2009). The "red carpet" is made from bright red resin-glass paving. This paving reflects and captures light during the day. Eight-meter high, red light poles are positioned on the carpet at various angles providing dramatic light at night. A fountain and other attractions also fills the space (WAN 2009).

This square is a 24/7 destination for communal celebrations and according to Martha Schwartz, it accurately interprets and exemplifies Dublin's optimistic metropolitan energy (WAN 2009).



Figure 2.81: Image of the site at night



Figure 2.82: 3D rendering of the site



Figure 2.83: Image of the red poles sticking out the ground



Figure 2.84: Transportation nodes near the site (within 3km)



Figure 2.85: Tourist hotspots near the site (within 3km)

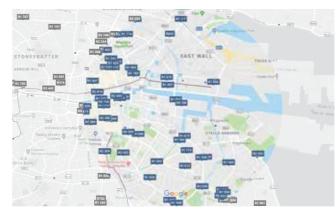
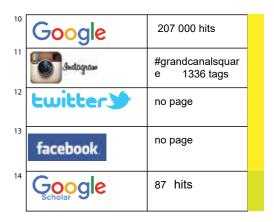


Figure 2.86: Accomodation near the site (within 3km)

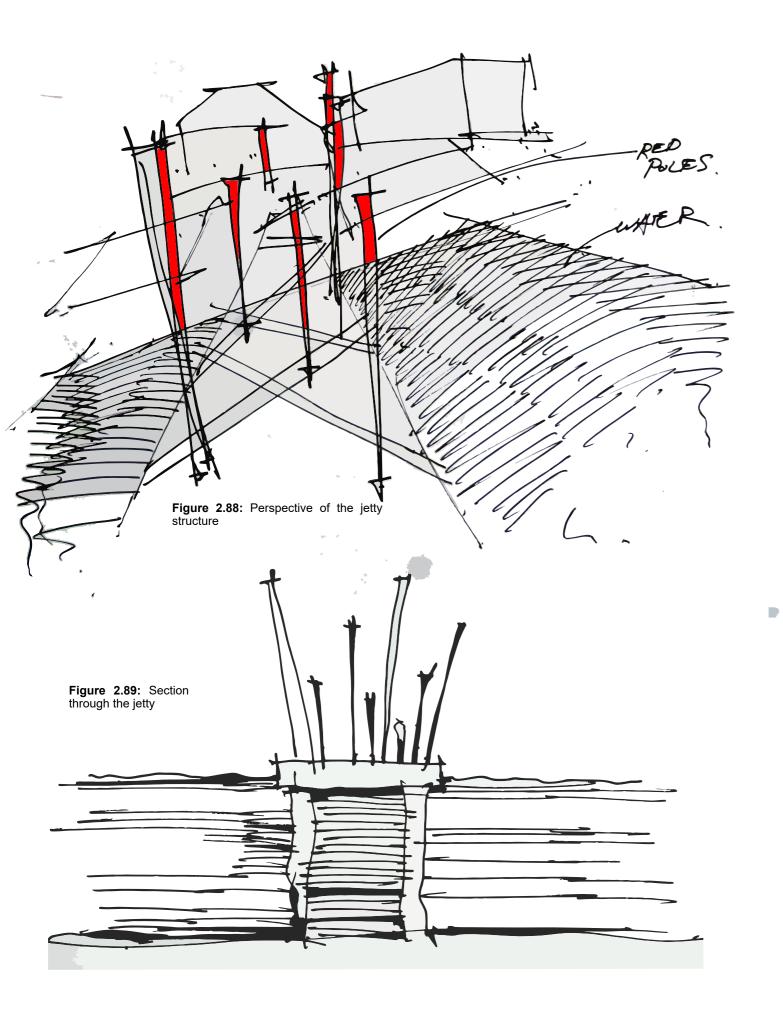


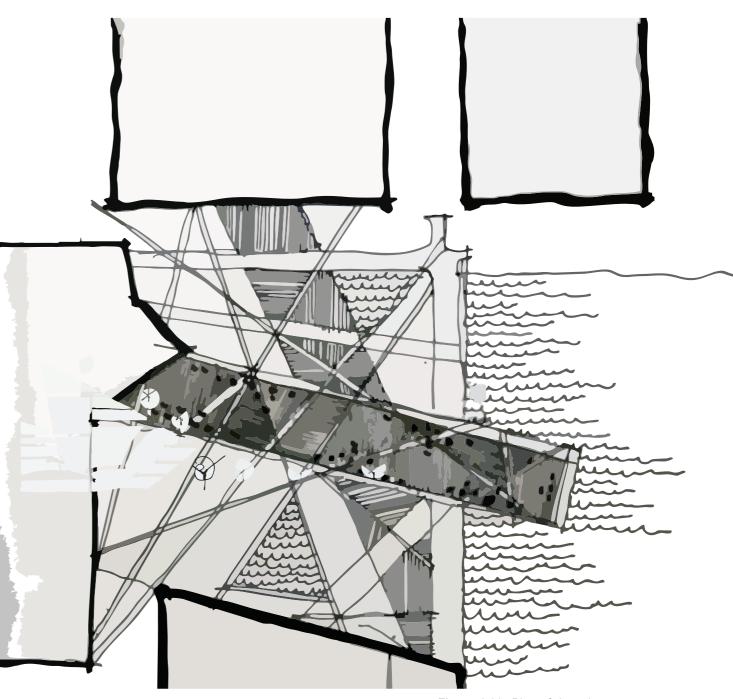
Figure 2.87: Martha Swarts ttp://www.dublindocklands.ie/living-docklands/things-do/sightseeing/grand-canal-square

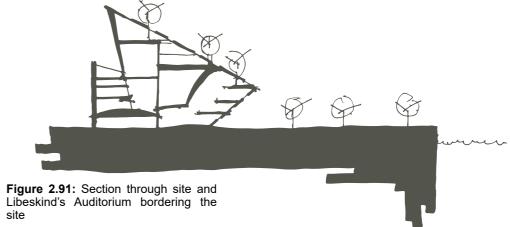
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- 8 https://www.books.google.co.za
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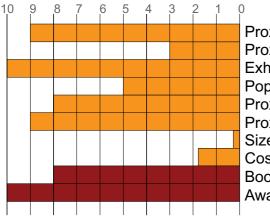




site

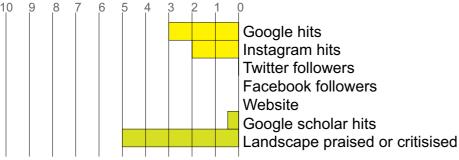
**Figure 2.90:** Plan of the urban space, highlighting the juxtaposition of the site and it's boundaries

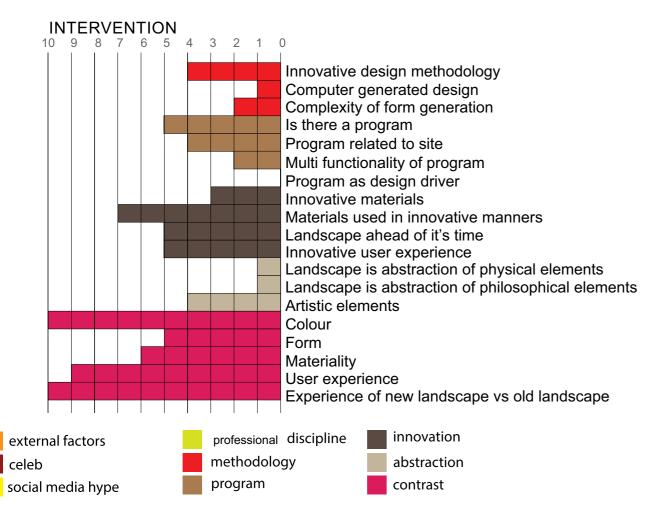
#### **EXTERNAL FACTORS**



Proximity to city center Proximity to transport nodes Exhibit, experience external to the design Population Proximity to accomodation Proximity to tourist attractions Size of landscape Cost of the landscape Books/articles published by designer Awards won by designer

#### WHAT'S THE HYPE ABOUT?





The Grand Canal Square makes a statement by using bright red illuminated poles. The local people of Dublin have been criticizing the design on online forums and it is clear to see why. The design does not recognize the existing historical layer of the site.

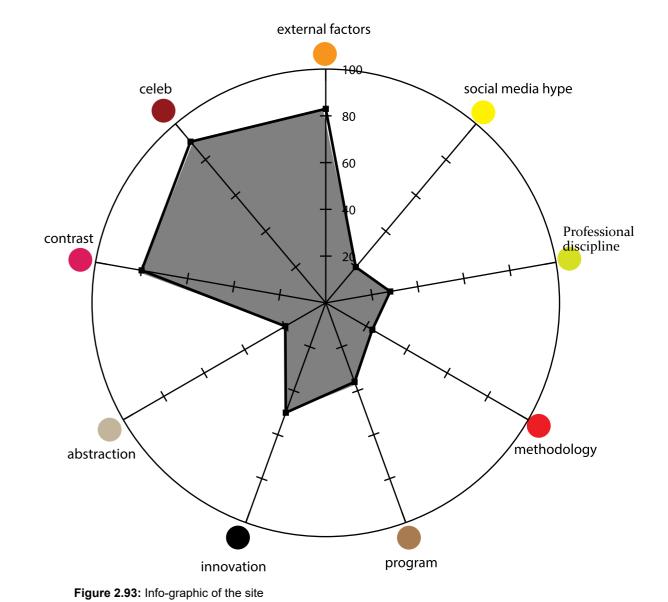


Figure 2.92: Information projected onto the graphic

# 2.3.6 Parc de la Villette, Paris, Bernard Tschumi

The Parc de la Villette is located at the north-eastern edge of Paris and is 55.5 hectares in area (Souza 2011). The park houses a large concentration of cultural venues in Paris, including three major concert venues, the Paris conservatory and the City of Science and Industry (Europe's largest science museum) There are live performance stages and theatres, as well as playgrounds for children, and thirty-five architectural follies, themed gardens, and open spaces for exploration and activity, the park has created an area that appeals to both adults and children (Souza 2011).

The park was designed by Bernard Tschumi, a French architect of Swiss origin, in partnership with Colin Fournier. The site was a former slaughterhouse and the national wholesale meat market which had been relocated in 1974 (Souza 2011). The park was developed as part of an urban redevelopment project.

The park opened in 1987 and has become a popular attraction for locals and international tourists. An estimated 10 million people visit the park each year.

According to Tschumi, the intention of the park was to create space for activity and interaction, rather than adopting the conventional park mantra of ordered relaxation and self-indulgence. The vast expanse of the park allows for visitors to walk about the site with a sense of freedom and with opportunities for exploration and discovery.

The design of the park is organized into a series of points, lines, and surfaces. The intention is to act as a means of deconstructing the traditional views of how a park is conventionally supposed to exist (Souza 2011).



Figure 2.94: Image of a folly in the landscape



Figure 2.95: Image of a folly in the landscape



Figure 2.96: Image of a folly in the landscape



Figure 2.97: Image of a folly in the landscape

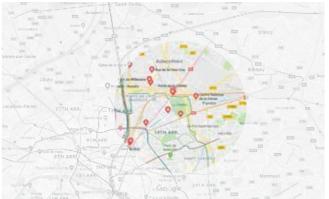


Figure 2.98: Transportation nodes near the site (within 3km)



Figure 2.99: Tourist hotspots near the site (within 3km)

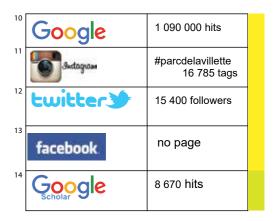


Figure 2.100: Accomodation near the site (within 3km)

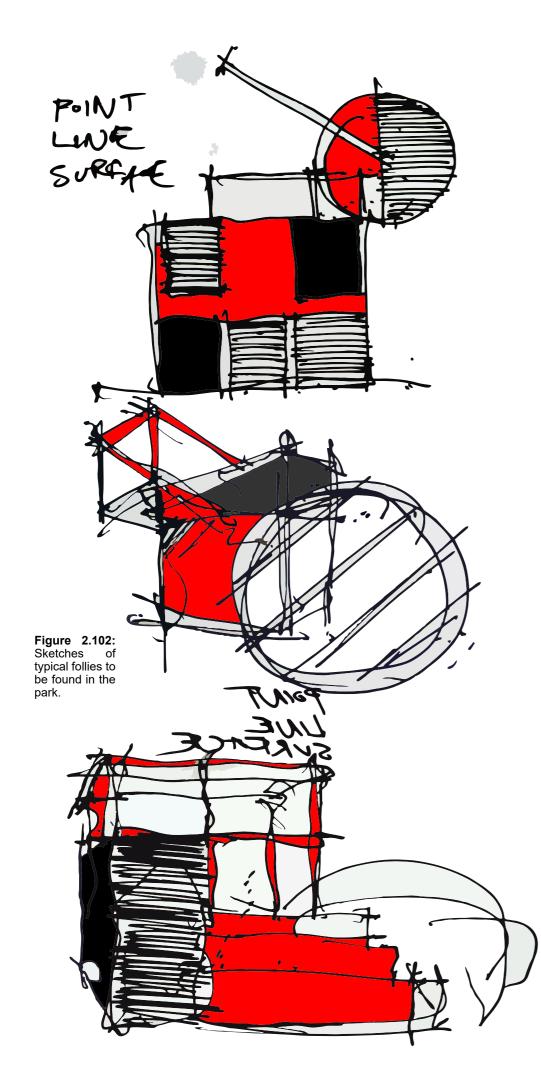


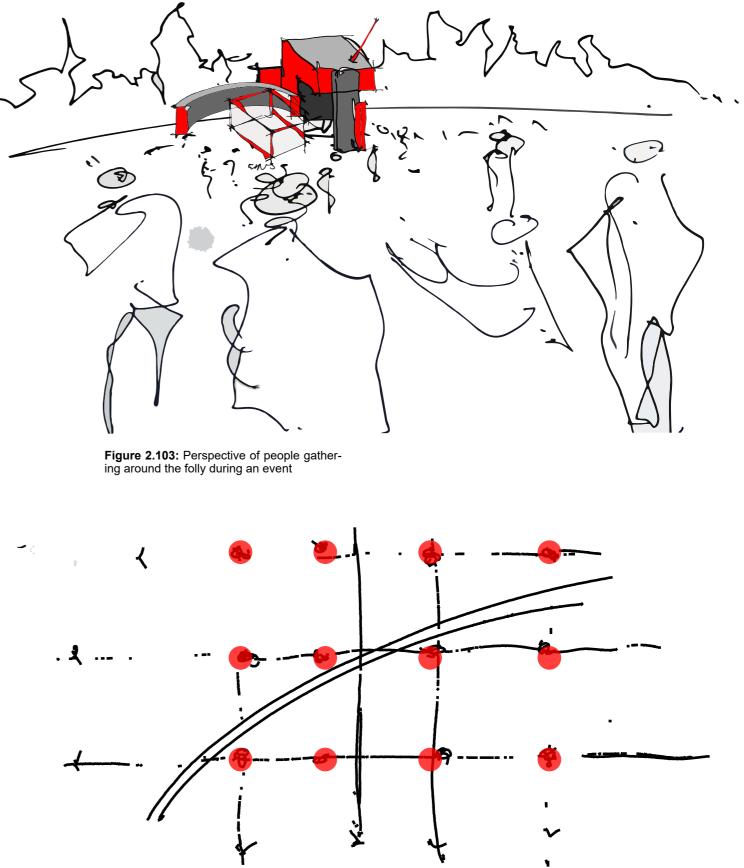
Figure 2.101: Bernard Tschumi

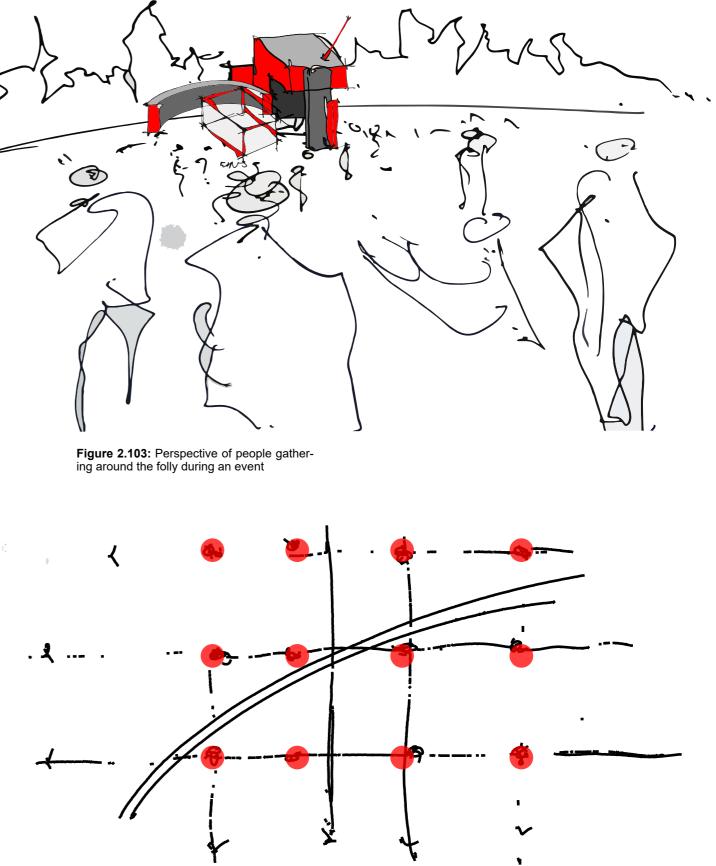
1	City center	5200m	
2	Transport nodes	15	
3	Population Paris	2 241 346	
4	Accomodation	17	
5	Tourist attractions	2	
6	Size of landscape	55.5ha	
7	Cost of landscape	14 000 000 euros	
8	Books published by designer	33	
9	Awards won by designer	39	



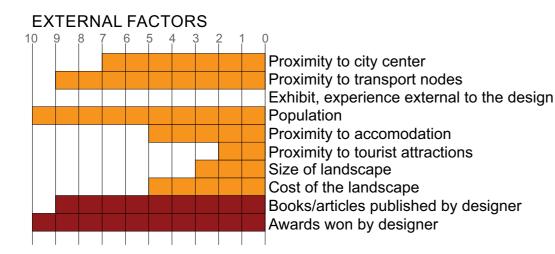
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- <sup>6</sup> www.architectmagazine.com/project-gallery/parc-de-la-villette-722
- <sup>7</sup> https://www.publicspace.org/works/-/project/w023-parc-de-la-villette
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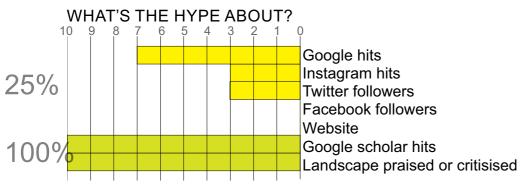


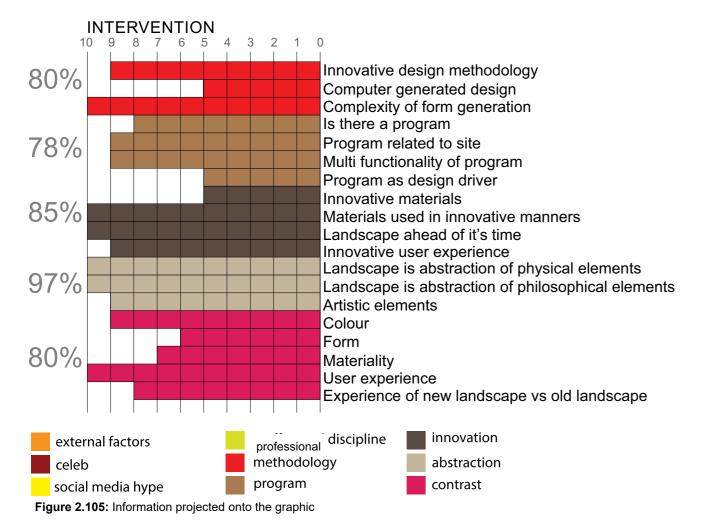




**Figure 2.104:** Diagram illustrating the concept of deconstruction. The entire park consist of points, lines and surfaces.







A masterpiece manifesting in the form of abstract follies, Parc de la Villette is an example of deconstructivism as a design approach. A very successful park regenerating a post-industrial precinct with distinction. Parc de la Villette does not possess a strong social media platform or external factors leading people to the site, but it is rather an abstraction and celebration of an ideological concept of deconstruction. Much like the GMB the design of the park sits seamlessly within the larger context, not afraid to make a statement.

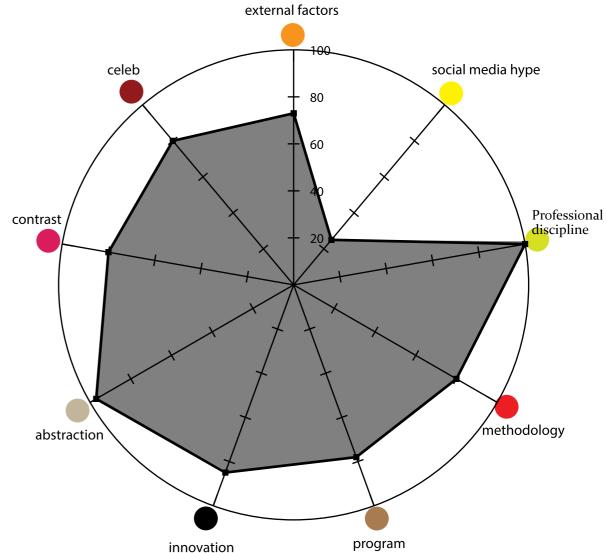
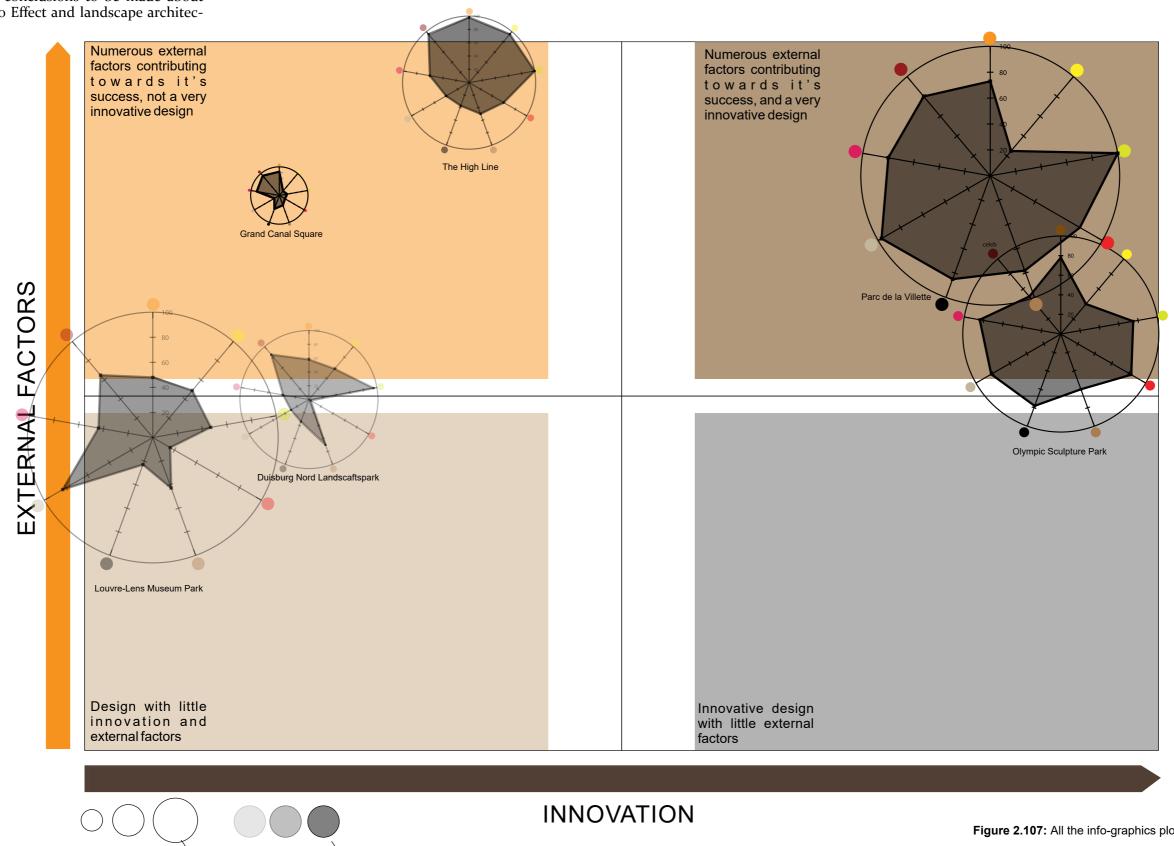


Figure 2.106: Info-graphic of the site

#### 2.4 Compiling the data

The following chart (Figure 2.104) is a graphic summary of the landscape projects analysed. The following graphics compare the landscape projects to one another in order for conclusions to be made about the Bilbao Effect and landscape architecture.

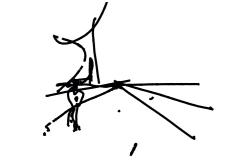


Abstraction of the project

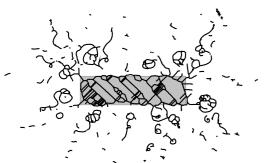
Contrast of the project

Figure 2.107: All the info-graphics plotted onto a chart

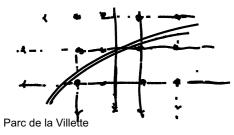
Figure 2.104 is distilled into parti diagrams, each one stating why the project has recreated the Bilbao Effect.



Olympic Sculpture Park



Louvre-Lens Museum Park



Philosophical Abstraction No program, innovative user experience

Simple program, innovative user experience

Physical Abstraction External exhibition

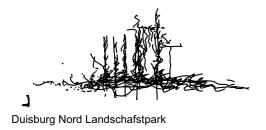
Contrast is ecological

Physical Abstraction, subtle External exhibition

Contrast is ecological

Simple program, innovative user experience





External exhibition Simple program, innovative user experience Contrast is ecological

External exhibition Simple program, innovative user experience Contrast is ecological The overlaid graphics creates a new info-graphic which theoretically illustrates the ideal project to recreate the Bilbao Effect. The graphic can now be used as a guideline for the design process to follow. The theory suggests that for the Author to recreate the Bilbao Effect in Pretoria West the design will have to comply to the graphic.

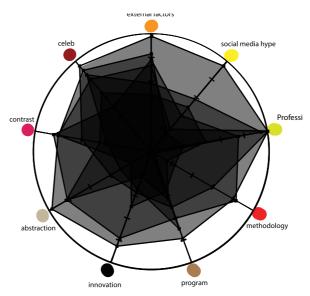


Figure 2.109: All the info-graphics overlayed

#### 2.4.1 Conclusions

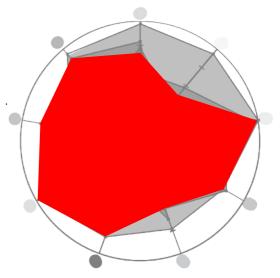
1.) Five out of the six precedents looked at whether they have some form of external exhibit integrated within the design. A good example is how the High Line merely compliments the existing famous skyline of New York City (Figures 2.33 - 2.36). The Seattle Sculpture Park is another example as it is filled with art pieces sculpted by world renowned artists.

2.) No landscape has challenged landscape architecture the same manner that the Guggenheim Museum Bilbao has challenged architecture.

3.) Successful projects have an interactive and frivolous social media platform, as well as professional management.

4.) An innovative program is not

Figure 2.108: Parti diagrams summarizing the landscape projects



**Figure 2.1010:** New info-graphic created from Figure 2.109, the ideal project to recreate the Bilbao Effect

necessary, but it would be preferable to have the program perceived as an innovative user experience.

Chapter three consists of the urban analysis and the urban issues in Preotria West. Once the author has an understanding of the site, the context of the conclusions will be calibrated to the specific site. Before the design process kicks off, chapter three will refine the conclusions of chapter two.