# **Supplementary dataset A to 0:**

# (A): Interview results

Questions	Answers
Have you lived in the	Yes: 95%
downtown?	No: 5%, but they have been working in the downtown since the 1950s.
Do you remember the stream	Yes: 100%
of Amman before it was	No: 0%
converted into Quraysh	
street? Why was the stream	To convert it into street to solve the traffic crisis in the
covered?	downtown especially King Talal Street, because of the urban
	expansion and the increasing number of population and cars.
	The stream's course was exposed and changed off its natural
	course, its depth also increased to transport rainwater and
	wastewater under the ground, and then it was covered.
What was the reaction of the	They were divided between supporters and opponents,
people who lived	supporters found it as a solution for the problem of flooding
surrounding the stream when it was covered?	in the winter and solving the traffic crisis. While the opponents
when it was covered?	considered it as a great loss especially that it was a source of irrigating orchards and farms, and a source of fishing, in
	addition to the green orchards surrounding the stream which
	converted into cement buildings.
What were the problems	Land acquisitions, difficulty of mobility despite the presence
faced by the residents which	of a wooden bridge, flooding in the winter season, discharging
associated with the stream at	wastewater on the stream by residents which led to pollute the
that time?	water, especially after the increase in population number from
IA/hat rivers the most	inside and outside Jordan.
What were the most important features of the city	Agriculture in the areas surrounded the stream, excursion in Ras Al.Ein area; in the former Al.Ahli club, which its location
of Amman at that time?	had become the Greater Amman Municipality. In addition to
	the Roman Amphitheater, the Nymphaeum, and the Roman
	Arches, which were removed when the stream covered. The
	Grand Husseini Mosque, the adjacent courtyard with the
	fountain, which was also removed. Commercial markets such
	as Bukhari market which formerly were inns for the
	merchants.
Can you describe the old city of Amman?	It was a small village, with low number of population. Until
OI AIIIIIaii;	the seventies of the last century, Amman was an agricultural lands and orchards. The city was a social mix of Jordanians,
	Palestinians, Circassians, Syrians, and Yemenites.
What were the most	King Talal street, the Roman Amphitheater, the Nymphaeum,
important places in that	Jabal Amman, Citadel, the Grand Husseini Mosque, Saudi &
time?	Malhas's mill (the mill was running on water before being run

separated along King Talal Street. While the social life was better than it is now, people were gathering every day.  Handcrafts, agriculture, ranching, carpentry, leather tanning, and some people worked in the railway station.  King Hussein's wedding, swimming in stream, fishing, playing football in Al.Ahli club. Cafes that gathered politicians, ministers and all categories of society. Spring season where the city was a green paradise.  Swimming in the stream, fishing, grilling the fish on the coal on the sides of the stream, walking in the stream to reach the farms of apricots and grapes, farms surrounding the stream, making bread on the sides of the stream, the women filling the water from the stream, people gathering on the both sides of the stream, and the women washing clothes near the stream.  Trees such as: willow, poplar, lindens, apricots, grapes, walnut, pomegranate, almond, lemon, orange, mulberry and eucalyptus.  Vegetables such as: lettuce, tomatoes, carrots and cucumber. Herbalists such as: chamomile, salvia, dandelion and thyme.  You wish to restore the		
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eucalyptus.  Vegetables such as: lettuce, tomatoes, carrots and cucumber.  Herbalists such as: chamomile, salvia, dandelion and thyme.  you wish to restore the  Yes: 90%	What were the trees and	Trees such as: willow, poplar, lindens, apricots, grapes,
Vegetables such as: lettuce, tomatoes, carrots and cucumber. Herbalists such as: chamomile, salvia, dandelion and thyme.  you wish to restore the Yes: 90%	plants existed at that time?	walnut, pomegranate, almond, lemon, orange, mulberry and
Herbalists such as: chamomile, salvia, dandelion and thyme.  you wish to restore the  Yes: 90%		eucalyptus.
you wish to restore the Yes: 90%		Vegetables such as: lettuce, tomatoes, carrots and cucumber.
•		Herbalists such as: chamomile, salvia, dandelion and thyme.
eam in a new urban way? No: 10%	Do you wish to restore the	Yes: 90%
	stream in a new urban way?	No: 10%

# (B): Questionnaire results

Variables		Percentage (%
Gender	Female	41
	Male	59
Age Group	20-30s	23
	31-40s	20
	41-50s	19
	51-60s	18
	Over 60s	20
Educational Level	Illiterate	1
	Preparatory	10
	Secondary	14
	Diploma	16
	Bachelor Degree	51
	Master's Degree	8
Have you lived in the downtown?	Yes	23
•	No	77
Favorite outdoor places in Amman downtown	Roman amphitheater	21.43
•	Roman Nymphaeum	2.86
	The Hashemite plaza	13.57
	Streets	10.71
	Grand Husseini	5
	mosque	17.86
	Bazaars	28.57
	Nothing	29
The purpose of visiting the downtown,	Shopping	26.43
especially Quraysh street & Hashimi street	Government -	6.43
	departments	
	Banks	4.64
	Library	4.29
	Tourism	14.64
	Restaurants	16.07
	Wholesale trade	5.36
	Visit friends &	9.64
	relatives	12.5
Have you seen Amman before the stream was	Yes	21
covered?	No	79

# (C): History and city character features results

Questions	Agreement	Percentage (%)
The covered stream of Amman has a significant historical	Agree	73
value?	Neutral	16
	Disagree	11
The covered stream of Amman has played a significant role	Agree	73
in initiating the city of Amman?	Neutral	19
,	Disagree	8
Positive impact points of the stream, before the coverage :	Agree	74
1. Agriculture	Neutral	15
•	Disagree	11
2. Recreation	Agree	59
	Neutral	26
	Disagree	15
3. Aesthetic value	Agree	51
	Neutral	33
	Disagree	16
4. Rainwater harvesting	Agree	62
O	Neutral	22
	Disagree	16
Negative impact points of the stream, before the coverage :	Agree	33
1. Solid waste landfill	Neutral	26
	Disagree	41
2. Landfill for wastewater	Agree	33
	Neutral	24
	Disagree	43
After coverage the stream, the positive impacts:	Agree	57
1. Development of new uses and services	Neutral	18
•	Disagree	25
2. Reduction of visual pollution	Agree	31
·	Neutral	21
	Disagree	48
3. Solving the problem of transportation	Agree	41
•	Neutral	19
	Disagree	40
4. Rainwater transfer in underground pipes	Agree	30
	Neutral	22
	Disagree	48
After coverage the stream, the negative impacts:	Agree	66
1. Negative impact on the city character	Neutral	22
	Disagree	12
2. The possibility of mixing the wastewater with	Agree	72
rainwater	Neutral	17
	Disagree	11

Agree	66
Neutral	16
Disagree	18
Agree	64
Neutral	23
Disagree	13
Agree	61
Neutral	24
Disagree	15
Agree	59
Neutral	17
Disagree	24
Agree	45
Neutral	34
Disagree	21
Agree	60
Neutral	21
Disagree	19
	Neutral Disagree Agree Agree Neutral Disagree Agree Neutral Disagree Neutral Disagree

### (D): Social and cultural characteristics results

Questions	Agreement	Percentage (%)
Is the downtown of Amman a cultural and touristic	Agree	8310
destination?	Neutral	7
	Disagree	
Does the present social life of the people in Amman differ	Agree	8016
from the past social life?	Neutral	4
	Disagree	
Are there sufficient places in the downtown for cultural	Agree	26
activities?	Neutral	16
	Disagree	58
Does the stream provide an opportunity for people to meet	Agree	61
and socialize?	Neutral	17
	Disagree	22

(E): Environment, landscape and green spaces characteristics results

Questions	Agreement	Percentage (%)
The stream has a significant value as an environmental	Agree	80
element?	Neutral	17
	Disagree	3
Is there a need for conserving the natural elements?	Agree	86
	Neutral	11
	Disagree	3
Does the existence of the stream enhance the natural beauty?	Agree	69
	Neutral	17
	Disagree	14
Does the existence of the stream encourage domestic and	Agree	60
foreign tourism?	Neutral	21
	Disagree	19
Does the existence of the stream important in storm water	Agree	72
management?	Neutral	19
	Disagree	9
Restoring the stream will help in reducing the runoff in the	Agree	70
winter?	Neutral	19
	Disagree	11
Restoring the stream will help in reducing the heat island	Agree	73
effect?	Neutral	19
	Disagree	8
Resorting the covered waterway into urban greenway will	Agree	76
reduce the air pollution?	Neutral	18
1	Disagree	6
Do you recommend restoring the stream?	Agree	67
,	Neutral	19
	Disagree	14
Do you think that the stream water quality needs treatment	Agree	87
to become safe?	Neutral	10
	Disagree	3
Is the proportion of green spaces area per person in Amman	Agree	9
sufficient?	Neutral	10
	Disagree	81
Are there any suitable places for relaxation and recreation in	Agree	13
the downtown?	Neutral	10
are dominomin	Disagree	77
linear parks could provide a continuous green heart and	Agree	77
reintroduce nature into the city	Neutral	17
Tentiroduce nature into the city	Disagree	6
	Disagree	U

(F): Land use planning characteristics results

Questions	Agreement	Percentage (%)
The rapid processes of urbanization, transportation and	Agree	79
migration hindered land use and environmental planning	Neutral	15
process	Disagree	6
Covering the stream led to convert the residential use into	Agree	72
the commercial use	Neutral	21
	Disagree	7
Covering the stream led to canceling agricultural practices	Agree	69
along the stream	Neutral	19
	Disagree	12
Restoring the covered stream could enhance and encourage	Agree	70
new housing, commercial and recreational development?	Neutral	23
•	Disagree	7

(G): Satisfaction with transportation and pedestrian networks characteristics results

Questions	Agreement	Percentage (%)
Do you think that Quraysh street as part of the downtown	Agree	27
should have priority for vehicles?	Neutral	24
	Disagree	49
Do you think that Quraysh street as the part of the	Agree	80
downtown should have priority for pedestrians?	Neutral	11
	Disagree	9
Do you think that there is a conflict between pedestrians'	Agree	76
movement and vehicles movement?	Neutral	13
	Disagree	11
Does the vehicle traffic jam at Quraysh street prevent people	Agree	75
from walking along the street?	Neutral	16
	Disagree	9
Was there a necessity to cover the stream of Amman and	Agree	26
convert it to a road?	Neutral	33
	Disagree	41

(H): Online questionnaire results of the public perception.

Variables		Percentage (%)
Residency in Amman	Resident	45
	None resident	55
Gender	Female	67.1
	Male	32.9
Age Group	Less than 18s	1.4
	18-25	23.8
	26-35	53.2
	36-45	8.6
	46-55	7.2
	56-65	3.6
	More than 65s	3.6
The city of Amman is rich in	1(Totally disagree)	11.1
natural resources	2	17.6
	3	28.8
	4	21.6
	5	14.4
	6 (Totally agree)	6.5
The city of Amman is rich in	1(Totally disagree)	5.2
recreational areas	2	20.9
	3	19.6
	4	26.8
	5	18.3
	6 (Totally agree)	9.2
Amman is the city of waters	1(Totally disagree)	43.8
	2	22.2
	3	15.7
	4	7.8
	5	6.5
	6 (Totally agree)	3.9
Amman is the city of	1(Totally disagree)	14.4
brotherly love	2	17.6
-	3	19
	4	19.6
	5	20.3
	6 (Totally agree)	9.2
Amman is the city of tariff	1(Totally disagree)	0.7
congestion	2	0.7
	3	1.3
	4	5.9
	5	22.9
	6 (Totally agree)	68.6

Amman is the city of seven	1(Totally disagree)	3.3
mountains	2	3.9
	3	6.5
	4	13.1
	5	12.4
	6 (Totally agree)	60.8
Amman is the city of concrete	1(Totally disagree)	1.3
and stone blocks	2	0
	3	13.7
	4	20.3
	5	28.1
	6 (Totally agree)	36.6
Amman is the city for all	1(Totally disagree)	0.7
nationalities	2	5.2
	3	7.2
	4	21.6
	5	28.1
	6 (Totally agree)	37.3
Amman is the city rich in	1(Totally disagree)	1.3
culture	2	6.5
culture	3	11.8
	4	32.7
	5	26.1
		21.6
A	6 (Totally agree)	7.8
Amman is the city for	1(Totally disagree)	
shopping	2	5.9
	3	17.6
	4	24.2
	5	26.8
	6 (Totally agree)	17.6
Amman is the city for tourism	1(Totally disagree)	9.2
	2	7.8
	3	19.6
	4	27.5
	5	22.9
	6 (Totally agree)	13.1
The perception of the city of Arquestion	nman character among time peri	iods; an open-ended
Perception/ Time period	Positive (repetition)	Negative (repetition)
The perception of Amman's	-Beautiful historical character	-Neglected character (4)
old character	(60)	-Unclear character (6)
	-City of civilizations (60)	
	-City of waters (4)	
	-Rich in the ancient heritage	
	(12)	
	(14)	

	-Old Amman's character is	
	represented in the downtown	
	(18)	
	-Ancient village with	
	multicultural character (14)	
	-Multicultural character (32)	
	-City rich in water (12)	
	-Economic center (downtown)	
	(6)	
	` '	
	- Inveterate character (24)	
	- Rich social character (4)	
	-Residential functional	
	character (4)	
	-Spatial character (6)	
	-Clear character (4)	
	-Clear geographical and	
	natural character (4)	
	-Have a unique landscape	
	character (4)	
	-Quiet town (6)	
	-Good character (4)	
The perception of Amman's	-City of development (24)	-Ugly city (0)
current character	-Services city (6)	-Lost its character (52)
	-City of tourism (10)	-Without any specific
	-City of shopping (8)	character (72)
	-City with multi-economic	-city free of nature and full
	centers (4)	of industry (8)
	-Beautiful city (22)	- lacks of water (14)
	-Urbanized city (12)	-contrariness between the
	-Economic center (4)	current and old character
	- City of diverse nationalities	(10)
	(6)	-Crowded city (18)
	-Multicultural city (12)	-City in need of traffic
	-Multi architectural character	regulation (6)
	(14)	-City in need of
	-Commercial city (4)	infrastructure improvements
	-Heritage city (6)	(10)
	- Thriving city	-Lost its cultural and
		historical character (12)
		-City with bad planning (10)
		-City of traffic congestion
		(34)
		-City of concrete blocks (18)
		- Random city (6)
		• • •
		-City of distinction between
		rich and poor people (10)
		-Turbulent character (4)

		-Deficient character (8)
		-Poor city with green and
		recreational areas (16)
		-Highly dense city (10)
		-City of environmental
		pollution (14)
		-Unsafe city (4)
		-Very expensive city (12)
		-City lacks of services (8)
		-Bad character (4)
The perception of Amman's	-One of the most important	-Will not have any
future character	urbanized cities (12)	presence in the future
	-City of urban development	generations' minds (6)
	(6)	-The gap between the
	-Culturally diverse character	current and old character
	(10)	will increase (10)
	-It will be more sophisticated	-Will be crowded and
	(10)	dangerous city (14)
	-A prosperous character (10)	-Will lose its character
	- It will be a competitive	completely (38)
	destination (8)	-It will have bad character
	-Global city character (6)	(6)
	-Tourist destination (14)	-Unknown character (42)
	-If the problems of traffic and	-Contradictory future
	rapid bus transit are solved,	character (4)
	the city will get better	-Its character will get
		worse (6)

(I): The demographic characteristics of the participants.

Before the coverage (Group A)	After the coverage (Group B)
The demographic characteristics results of the	One-to-one questionnaire, random sampling
target group of the interviewees (30 persons of	200 person of the visitors and residents, ages
the elder people ≥65 ) showed that:	20-75.
<ul><li>100% of the participants were men</li></ul>	■ 59% were males, while 41% were females,
<ul> <li>Residents at that time worked in handicrafts,</li> </ul>	where 62% of the participants were less than
agriculture, ranching, carpentry, leather	the age of 50 years.
tanning, and some people worked in the	Over 59% of the participants had at least a
railway station.	bachelor degree.
■ 100% of the participants saw the stream	<ul><li>They constituted shoppers, visitors, and</li></ul>
before the coverage and remember the	residents of the study area.
downtown in that time clearly.	

- 95% lived in the downtown before the coverage of the stream, while 5% of them did not live in the downtown but they have been working in the downtown since 1950s.
- The education of the interviewees was middle or high school. 10 people had a 2-year industrial college (vocational school) education, while the rest learned the craft by practice.

#### (J): Description of the history and city character features.

Before the coverage	e After the coverage
<ul> <li>The interviewees described "the</li> </ul>	old city of • 73% of the participants considered the stream
Amman" i.e. the downtown as a	small village, a historical value that played a significant role
intermediated with a small river	r i.e. the in the emergence of the city.
stream of Amman.	<ul><li>59% of the participants considered that the</li></ul>
<ul> <li>They described the stream bank</li> </ul>	s including character of Amman had changed after
orchards and some houses with	low number covering the stream
of population.	• The positive impacts of covering the stream:
<ul> <li>In their opinion, the most important</li> </ul>	tant features 1. Development of new land uses and services
of the city were:	57%
1. Roman Amphitheater	2. Solving transportation problems 41%
2. The Nymphaeum	• The negative impacts of the coverage as:
3. Roman Arches over the stream (	(Upon the 1. The possibility of mixing the wastewater
covering of the stream the muni	cipality with rainwater 72%
removed the arches).	2. Negative impact on the city character 66%
*They did not see that the stream i	is an 3. Increased the runoff 64%
important feature for the downt	town. 4. The change of the land uses 61%
1	

#### (K): The social and cultural characteristics.

Before the coverage	After the coverage
<ul> <li>Interviewees expressed that social life was</li> </ul>	■ 83% of the participants considered the
more intimate, simple and enjoyable then.	downtown of Amman a cultural and
<ul> <li>The community consisted of groups of</li> </ul>	touristic destination.
extended and nuclear families with strong	■ 80% of the participants considered the
social ties, where the residents mainly	present social life of the people in Amman
worked in farming, fishing, trading and	different from the past social life.
handicrafts.	■ 58% of the participants believed that there
<ul> <li>Economically, people had comparable</li> </ul>	are insufficient places in the downtown for
conditions.	cultural activities.
<ul> <li>The interviewees described "the old city of</li> </ul>	■ 61% deemed that the stream provided an
Amman" as a center of social mix and	opportunity for people to meet and
cultural gathering.	socialize.

- The community was a mix of Jordanians, Palestinians, Circassians, Syrians and Yemenis.
- They pointed out that the existence of the rail road (with traders and pilgrims) had an impact on the generated milting pot.

### (L): The environment, landscape and green spaces characteristics.

(L): The environment, landscape and green spaces characteristics.		
Before the coverage	After the coverage	
<ul> <li>When asked to describe the place in the spring, they were evoked to describe the stream's nature and significance for the city. Interviewees described the downtown in spring season as "a green paradise".</li> <li>They said: the city was famous for local trees.</li> <li>The problems faced by the residents were associated with the stream at that time: <ol> <li>The winter floods of the stream.</li> <li>The pollution caused by discharging wastewater in the stream by residents. With the boost in the population, the pollution levels increased.</li> </ol> </li> </ul>	<ul> <li>81% of the participants considered the proportion of green spaces areas per person in the downtown insufficient</li> <li>77% deemed that there are not any suitable places for relaxing and recreation in the downtown</li> <li>77% supported that the linear parks could provide a continuous green linear heart to reintroduce nature into the city.</li> <li>72% considered the existence of the stream important for storm water management.</li> <li>67% of the participants recommended the restoration of the stream.</li> <li>70% of the participants believed that restoring the stream will help in reducing the runoff in the winter</li> <li>73% thought that restoring the stream will help in reducing the urban heat island effect.</li> <li>76% believed that restoring the covered stream and turning it into an urban greenway will reduce the air pollution</li> <li>58% of the participants liked to visit the archeological sites,</li> <li>29% didn't have a favorite place in the</li> </ul>	

### (M): Land use planning characteristics

Before the coverage	After the coverage
The interviewees indicted that until the	■ 79% of the participants considered the rapid
seventies of the last century Amman has the	processes of urbanization, transportation
following characteristics in terms of land use:	and migration hindering land use and
<ul> <li>Agriculture-dependent city with land</li> </ul>	environmental planning processes.
orchards and fields.	■ 72% of the participants deemed that
<ul> <li>Shops scattered along King Talal Street.</li> </ul>	covering the stream led to convert the
<ul> <li>The residential land uses concentrated</li> </ul>	residential use into the commercial use.
around the stream.	■ 70% supported that restoration of the
	covered stream could enhance and

downtown.

- The archives of the city municipality also emphasized the same uses on the land use maps.
- encourage new housing, commercial and recreational development.
- The intensions to develop central business and central commercial uses did not take place by this stage. Documented uses were limited to small commercial uses, light industries, and residential uses.

#### (N): Satisfaction with transportation and pedestrian networks.

(14). Satisfaction with transportation and peacetrian networks.		
Before the coverage	After the coverage	
■ The interviewees stated that there were few	■ 80% of the participants deemed that the	
cars and few streets.	priority at Quraysh Street should be for	
■ There was difficulty in accessing the other	pedestrians.	
side of the stream bank	■ 76% of the participants thought that there is	
• Residents crossed the wooden and metallic	conflict between pedestrians' movement	
bridges to reach the stream banks and to	and vehicles movement.	
carry out their daily activities.	■ 75% considered that the vehicles traffic jam	
• Activities. The rail road role in	at Quraysh Street prevent people from	
transportation was limited to accessing	walking along the street.	
Mecca and Damascus.		
·	·	

(O): A blue print from the Roman Amphitheater to Ein Ghazal proposed planning modifications in 1971 excerpted from Greater Amman Municipality archives, re-colored by the authors.

