

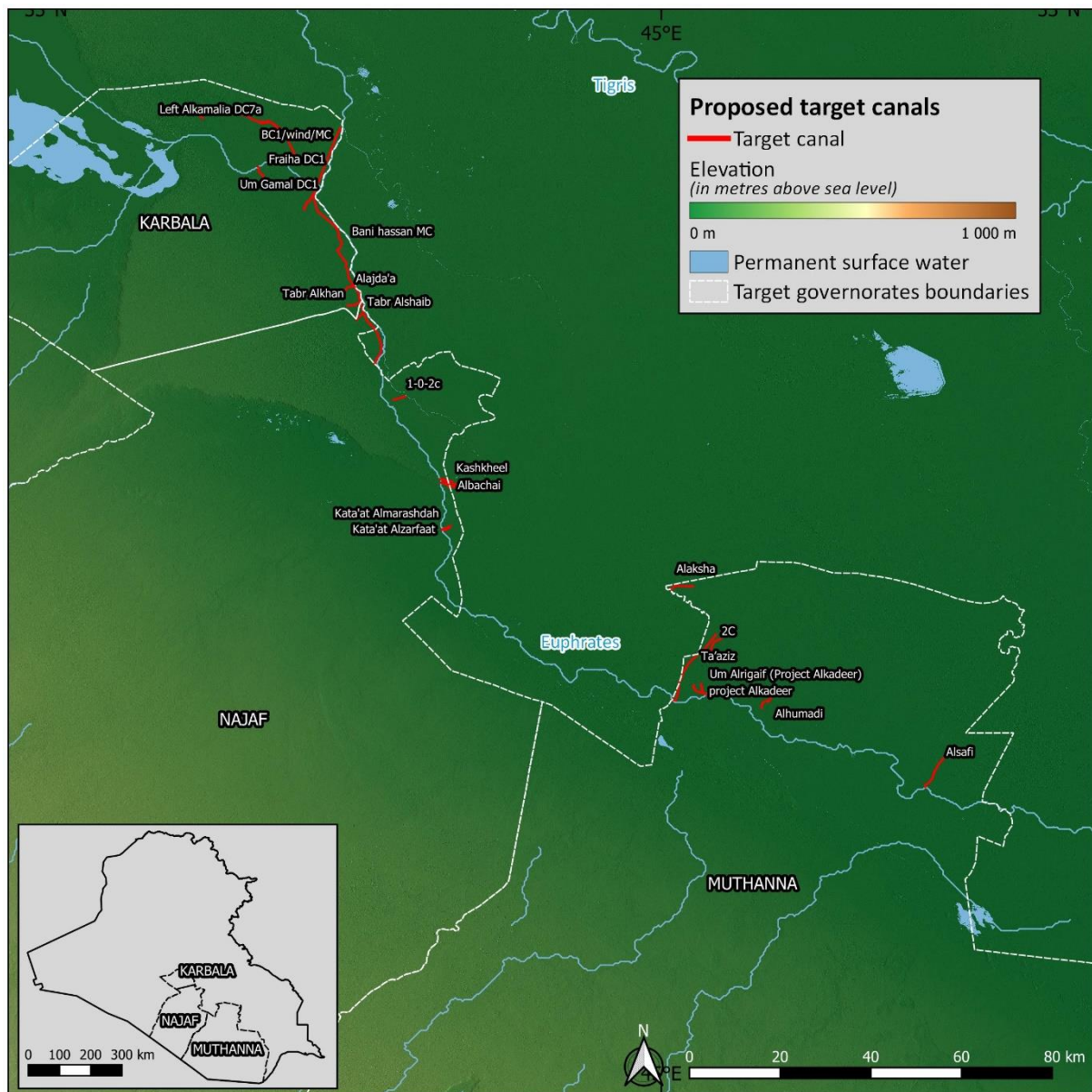
# Location of the proposed target canals

The SRVALI proposed target canals are distributed over the 3 target governorates of the project: Karbala, Muthanna and Najaf.

table 1: Proposed target canals in the SRVALI project

Governorate	Name	District	Proposed transformation	Latitude	Longitude
<b>Karbala</b>	Um Gamal DC1	Al Jawal algharbi	Pipeline	32.5713	44.1998
	BC1/wind/MC	Al Husainiya	Solar panel	32.7234	44.1253
	Fraiha DC1	Al Husainiya	Pipeline	32.6367	44.0748
	Left Alkamalia DC7a	Al Husainiya	Pipeline	32.7291	44.1167
<b>Muthanna</b>	Alaksha	Najmi	Pipeline	31.6662	45.0217
	Alhumadi	Majd	Pipeline	31.3937	45.2308
	2C	Al Rumetha	Solar panel	31.5514	45.1368
	Ta'aziz	Al Rumetha	Solar panel	31.5616	45.1260
	Alsafi	Al Khudir	Solar panel	31.2123	45.6062
	Project Alkadeer	Hilal	Solar panel	31.4253	45.1024
	Um Alrigaif (Project Alkadeer)	Hilal	Pipeline	31.4276	45.0971
<b>Najaf</b>	Alajda'a	Al Haydariya	Pipeline	32.3632	44.2930
	Bani Hassan MC	Al Haydariya	Solar panel	32.3648	44.2934
	Tabr Alkhan	Al Haydariya	Pipeline	32.3263	44.3080
	Tabr Alshaib	Al Haydariya	Pipeline	32.2992	44.3154
	1-0-2c	Al Abassiyah	Solar panel	32.1084	44.4094
	Albachai	Al Manathra	Pipeline	31.9109	44.4954
	Kata'at Almarashdah	Al Mishkhaab	Pipeline	31.8040	44.4984
	Kata'at Alzarfaat	Al Mishkhaab	Pipeline	31.8031	44.4985

Figure 1: Location of the proposed target canals in the SRVALI project





## Karbala Governorate

There are 4 target canals in the Karbala governorate: Um Gamal DC1, BC1/wind/MC, Fraiha DC1 and Left Alkamalia DC7a canals. Only 1 canal is proposed to be fitted with solar panels: BC1/wind/MC canals. The rest of the canals are proposed to be converted into pipelines.

Figure 2: Local situation of the canals in the Karbala governorate.



## Um Gamal DC1 Canal

Figure 3: Local situation of the Um Gamal DC1 canal.





## BC1/wind/MC Canal

Figure 4: Local situation of the BC1/wind/MC canal.



## Left Alkamalia DC7a Canal

Figure 5: Local situation of the Left Alkamalia DC7a canal.





## Fraiha DC1 Canal

Figure 6: Local situation of the Fraiha DC1 Canal.



## Muthanna Governorate

There are 7 target canals in the Muthanna governorate: Alaksha, Alhumadi, 2C, Ta'aziz, Alsafi, Project Alkadeer and Um Alrigaif (Project Alkadeer) canals. 3 canals are proposed to be converted into pipelines: Alaksha, Alhumadi and Um Alrigaif (Project Alkadeer) canals. The rest is proposed to be fitted with solar panels.

Figure 7: Local situation of the canals in the Muthanna governorate.





## Alaksha Canal

Figure 8: Local situation of the Alaksha canal.



## Alhumadi Canal

Figure 9: Local situation of the Alhumadi canal.





## 2C Canal

Figure 10: Local situation of the 2C canal.



## Ta'aziz Canal

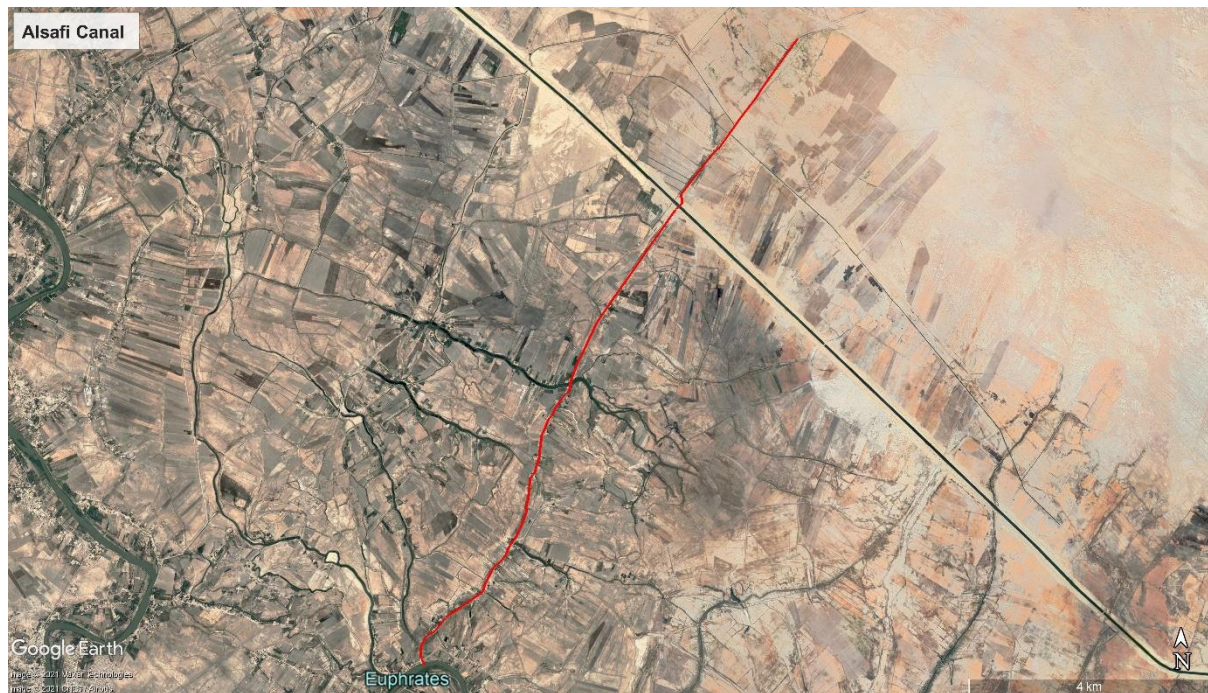
Figure 11: Local situation of the Ta'aziz canal.





## Alsafi Canal

Figure 12: Local situation of the Alsafi canal.



## Project Alkadeer Canal

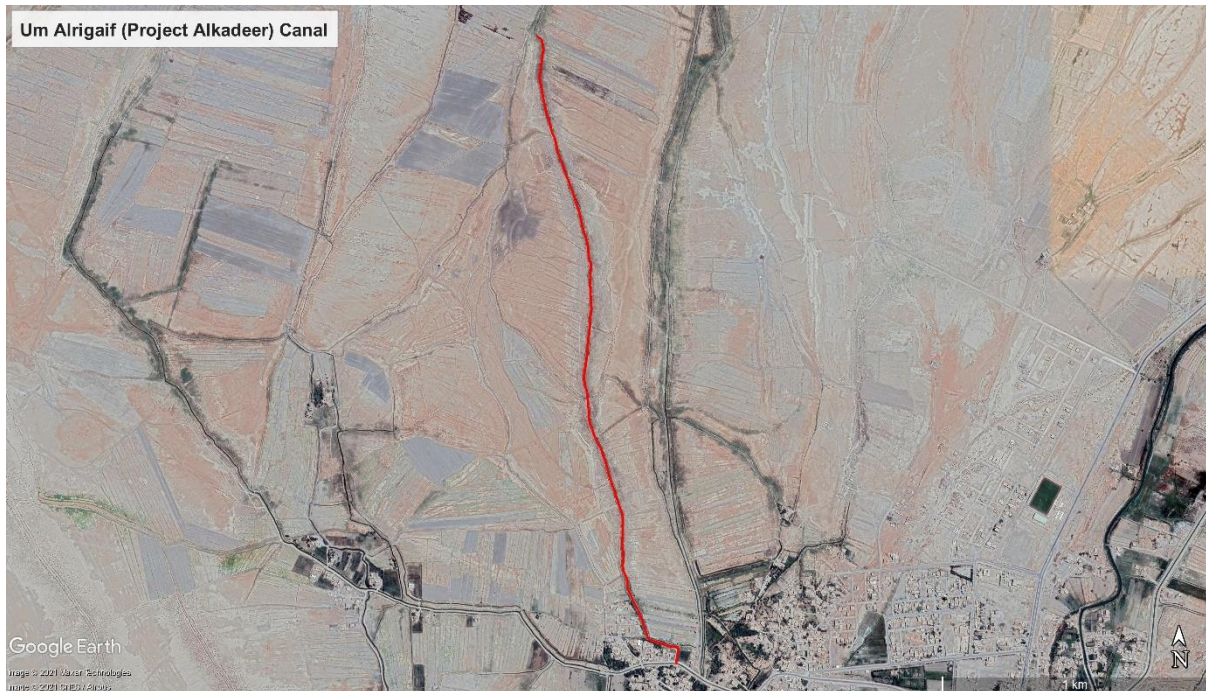
Figure 13: Local situation of the Project Alkadeer canal.





## Um Alrigaif (Project Alkadeer) Canal

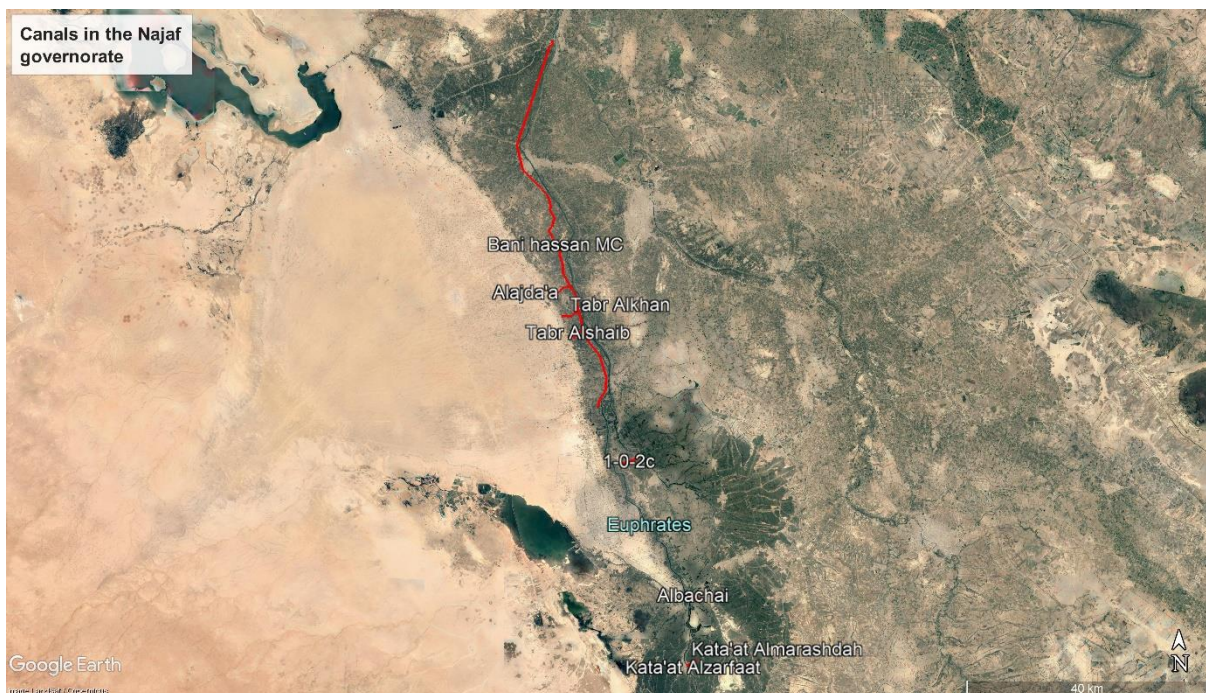
Figure 14: Local situation of the Um Alrigaif (Project Alkadeer) canal.



## Najaf Governorate

There are 8 target canals in the Najaf governorate: Alajda'a, Bani hassan MC, Tabr Alkhan, Tabr Alshaib, 1-0-2c, Albachai, Kata'at Almarashdah and Kata'at Alzarfaat canals. 2 canals are proposed to be fitted with solar panels: Bani hassan MC and 1-0-2c canals. The rest of the canals are proposed to be converted into pipelines.

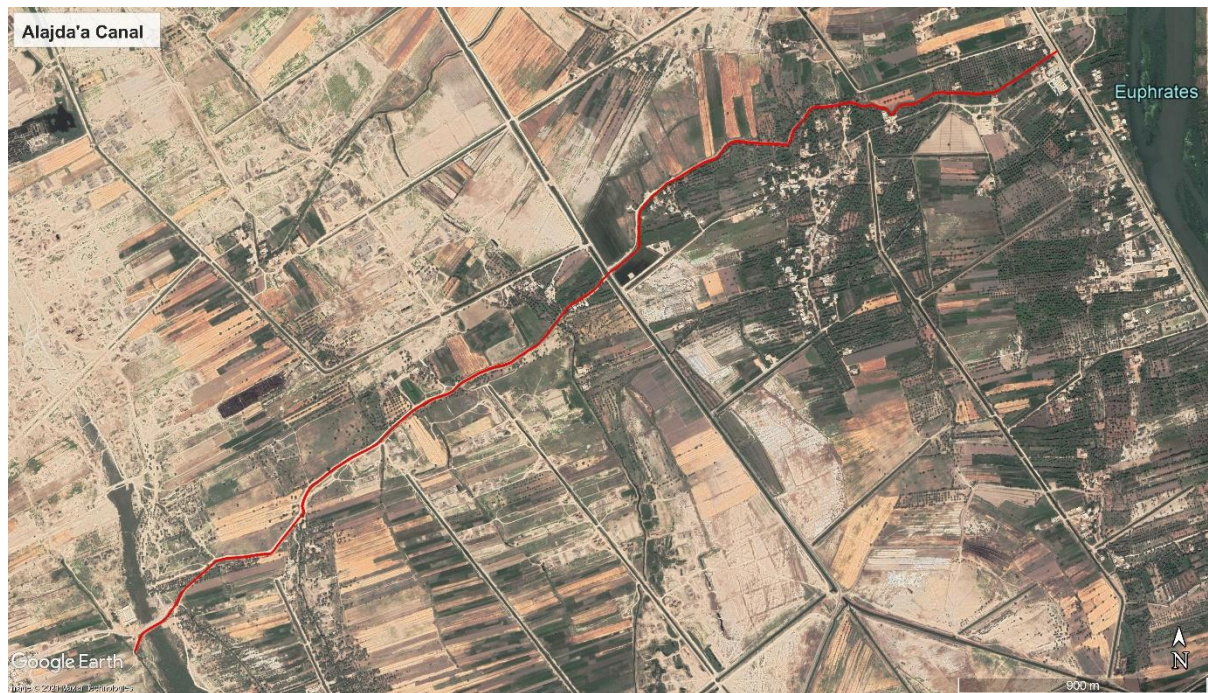
Figure 15: Local situation of the canals in the Najaf governorate.





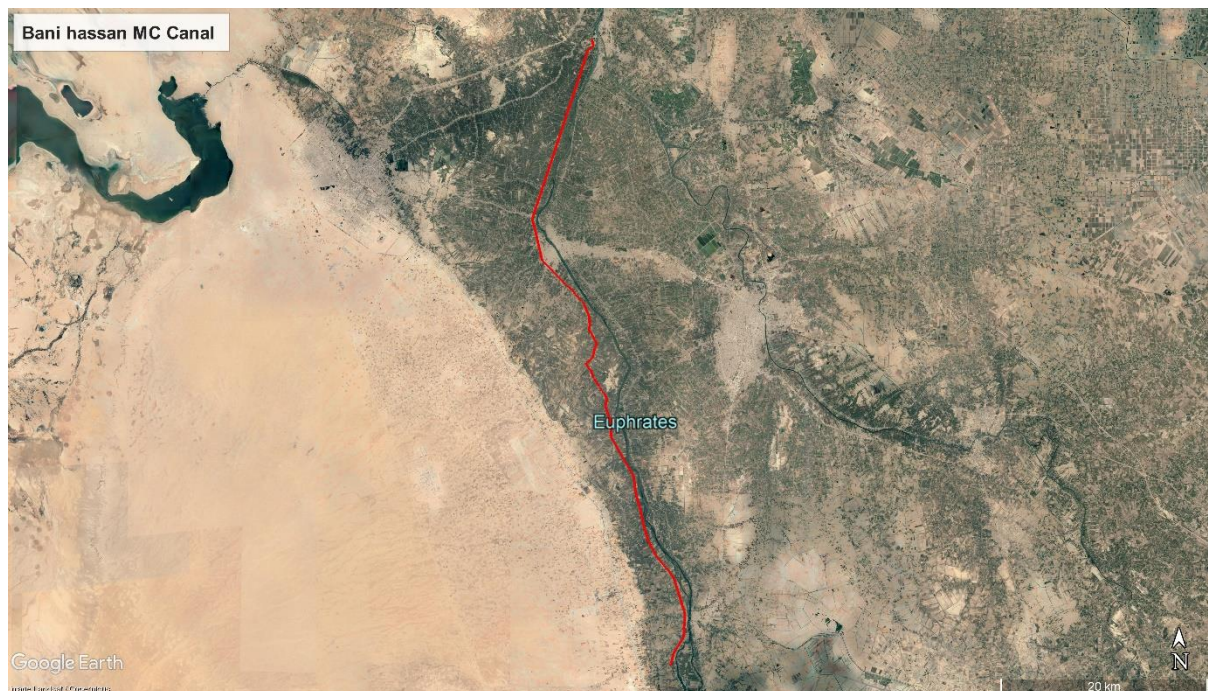
## Alajda'a Canal

Figure 16: Local situation of the Alajda'a canal.



## Bani Hassan MC Canal

Figure 17: Local situation of the Bani Hassan MC canal.





## Tabr Alkhan Canal

Figure 18: Local situation of the Tabr Alkhan canal.



## Tabr Alshaib Canal

Figure 19: Local situation of the Tabr Alshaib canal.





### 1-0-2c Canal

Figure 20: Local situation of the 1-0-2c canal.



## Albachai Canal

Figure 21: Local situation of the Albachai canal.





## Kata'at Alzarfaat Canal

Figure 22: Local situation of the Kata'at Alzarfaat canal.



## Kata'at Almarashdah Canal

Figure 23: Local situation of the Kata'at Almarashdah canal.

