

# Copernicus Masters 2022 Sustainable Urbanism

June 2022

## Urbanism before the 1930s

- Cities evolved mostly *naturally*.
- Local population was taken into account.
- What existed before was considered.
- Practical & harmonious simultaneously.
- No privileged place given to automobiles in the city.

# Paris late 19th century urban development



## Urbanism after 1945

- Triumph of 19th century mechanistic/technocratic thinking.
- The city as a *problem to be solved*.
- Populations are just *elements* to be manipulated.
- Automobiles take the central place.
- Sprawl vs. density.



## Robin Hood Gardens, London (1972) - condemned



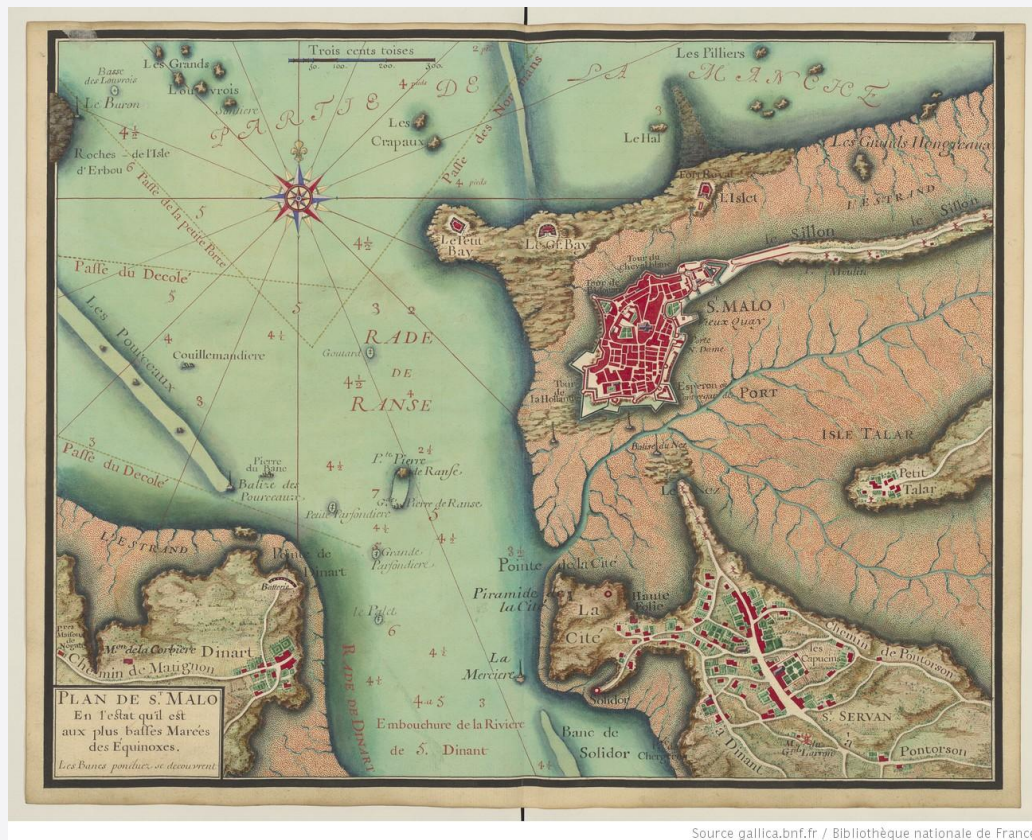
## UP42/Airbus challenge 2022

- Sustainable urbanism & cities.
- Bringing remote sensing to bear on urbanism.
- Quantify what makes a city likeable & liveable.
- Looking from above to what exists.
- To be used as an auxiliary to urban planning.

## Example of urban analysis: Saint-Malo, France

- Old city (intra-muros) going back to the 12th century.
- Enlarged in the 17th/18th century.
- Car density across the years and across the seasons.
- Old city is 0.26 square kilometers.
- Walkable city: no need for automobiles.

# Saint-Malo 17th century





Plan de St. Malo, et des forts des Environs

1. St. Malo Cathédrale 2. St. Pierre  
3. St. Jean 4. St. Michel  
5. St. Benoît 6. St. Julien  
7. St. Georges 8. St. Martin  
9. St. Etienne 10. St. Louis  
11. St. Anne 12. St. Vincent  
13. St. Pierre 14. St. Michel  
15. St. Julien 16. St. Louis  
17. St. Anne 18. St. Vincent  
19. St. Pierre 20. St. Michel  
21. St. Julien 22. St. Louis  
23. St. Anne 24. St. Vincent  
25. St. Pierre 26. St. Michel  
27. St. Julien 28. St. Louis  
29. St. Anne 30. St. Vincent  
31. St. Pierre 32. St. Michel  
33. St. Julien 34. St. Louis  
35. St. Anne 36. St. Vincent  
37. St. Pierre 38. St. Michel  
39. St. Julien 40. St. Louis  
41. St. Anne 42. St. Vincent  
43. St. Pierre 44. St. Michel  
45. St. Julien 46. St. Louis  
47. St. Anne 48. St. Vincent  
49. St. Pierre 50. St. Michel  
51. St. Julien 52. St. Louis  
53. St. Anne 54. St. Vincent  
55. St. Pierre 56. St. Michel  
57. St. Julien 58. St. Louis  
59. St. Anne 60. St. Vincent  
61. St. Pierre 62. St. Michel  
63. St. Julien 64. St. Louis  
65. St. Anne 66. St. Vincent  
67. St. Pierre 68. St. Michel  
69. St. Julien 70. St. Louis  
71. St. Anne 72. St. Vincent  
73. St. Pierre 74. St. Michel  
75. St. Julien 76. St. Louis  
77. St. Anne 78. St. Vincent  
79. St. Pierre 80. St. Michel  
81. St. Julien 82. St. Louis  
83. St. Anne 84. St. Vincent  
85. St. Pierre 86. St. Michel  
87. St. Julien 88. St. Louis  
89. St. Anne 90. St. Vincent  
91. St. Pierre 92. St. Michel  
93. St. Julien 94. St. Louis  
95. St. Anne 96. St. Vincent  
97. St. Pierre 98. St. Michel  
99. St. Julien 100. St. Louis

Ge D 1781

36881

This is a detailed historical map of the Brittany region, showing coastal towns like St. Malo, Dinard, and St. Servan, and inland towns like Parame, La Motte, and Riancourt. The map includes numerous place names, roads, and geographical features like rivers and the sea.



**Join our challenge**

**help make the world more  
liveable & likeable**