Food Systems in European Cities

Deliverable 7.16 Production and performances of 80+ mini documentaries

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Authors	Nino Jikia, Xanne Zellenrath, Federico Narducci
Contributors	UNIBO, APT, RMN, SWUAS, ILS, FLY, NOL, BOL, NAP, UNINA, LAN, WR, POL, TAS, MBI, BEE, SBD, ISL, ULL, UAB, METAINST, NBL AS
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Project Consortium

No.	Institution Short name	Institution Full name	Country
1	UNIBO	ALMA MATER STUDIORUM – UNIVERSITÀ DI BOLOGNA	IT
2	APT	INSTITUT DES SCIENCES ET INDUSTRIES DU VIVANT ET DE L'ENVIRONNEMENT - AGRO PARIS TECH	FR
3	RMN	COMMUNE DE ROMAINVILLE	FRA
4	SWUAS	FACHHOCHSCHULE SUDWESTFALEN	DE
5	ILS	INSTITUT FUR LANDES- UND STADTENTWICKLUNGSFORSCHUNG gGMBH	DE
6	FLY	FLYTECH SRL	IT
7	NOL	NOLDE ERWIN	GE
8	BOL	COMUNE DI BOLOGNA	IT
9	NAP	COMUNE DI NAPOLI	IT
10	UNINA	UNIVERSITA DEGLI STUDI DI NAPOLI FEDERICO II	IT
11	HCA	HAGUE CORPORATE AFFAIRS BV	NL
12	LAN	GEMEENTE LANSINGERLAND	NL
14	WR	STICHTING WAGENINGEN RESEARCH	NL
16	POL	POLAR PERMACULTURE SOLUTIONS AS	NO
17	TAS	TASEN MICROGREENS AS	NO
18	MBI	ASOCIATIA MAI BINE	RO
19	ARC	ARCTUR RACUNALNISKI INZENIRING DOO	SI
20	BEE	DRUSTVO URBANI CEBELAR	SI
21	SBD	AJUNTAMENT DE SABADELL	ES
22	ISL	ORGANIZACION DE PRODUCTORES DE TUNIDOS Y PESCA FRESCA DE LA ISTA DE TENERIFE	ES
23	ULL	UNIVERSIDAD DE LA LAGUNA	ES
24	UAB	UNIVERSITAT AUTONOMA DE BARCELONA	ES
25	METAINST	STICHTING METABOLIC INSTITUTE	NL
26	NBL AS	NABOLAGSHAGER AS	NO

Document Control Sheet

Version	Date	Summary of changes	Author(s)
0.1.	15.05.2023	First draft	HCA NL, HAGUE BE
1.0.	30.06.2023	Final version including feedback from partners	HCA NL, HAGUE BE

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1. Introduction

In the context of FoodE, Work Package 7 (WP7) has developed a series of mini documentaries with the aim of broadly disseminating the pilot projects and increasing awareness about sustainable urban agriculture and City Region Food Systems (CRFS). As part of this effort, 80 mini documentaries were produced to showcase the innovative practices and solutions being implemented across the CRFS value chain.

The mini documentaries have been widely distributed across various channels to reach a broader audience. The videos were initially published on FoodE's YouTube channel, where they have received over 6.2K views so far. FoodE has also shared the documentaries on its social media channels, including Facebook, Instagram, and Twitter, to increase their reach and engagement. Additionally, the mini documentaries have been featured on FoodE's website and bi-yearly newsletters to keep stakeholders up to date with the project's latest developments.

2. Methodology

The production of mini documentaries for the FoodE project was divided into four main categories.

- ISHS talks on Vertical Farming – organised by Prof. Dr. Francesco Orsini, Prof. Dr. Leo F.M. Marcelis and Prof. Dr. Murat Kacira. These recorded webinars addressed key research questions associated with vertical farming.
- Pilot projects - FoodE produced a series of mini documentaries about its pilot projects, their activities and achievements, as well as mini-interviews with the researchers and representatives of pilot projects.
- Participatory videos – Students produced videos to describe innovative CRFS initiatives across Europe.
- Educational videos – FoodE produced a series of mini documentaries to raise awareness about different aspects of urban agriculture and CFRS.
- Animation video – FoodE produced two animation videos about FoodE superhero Terrix, which was created by young pupils. The animation video is targeting school pupils and is often used in FoodE's KidScience activities.

By categorising the mini documentaries in this way, FoodE was able to target different audiences and achieve their goal of disseminating information about sustainable urban agriculture and CRFS to a wider audience.

3. Annex

List of mini documentaries:

Category 1: ISHS talks on Vertical Farming

1. Can we control intumescence injury in tomatoes grown under LED light? Chieri Kubota, Ohio State University, USA
2. What are the critical choices and decisions towards next generation plant factories? Eri Hayashi, JPFA, Japan
3. Are vertical farms sustainable for the environment? Michael Martin, IVL Sweden
4. Do we need green light in a vertical farm? Erik Runkle, Michigan State University, USA
5. What is the role of light spectrum on lettuce leaf pigmentation? Laura Cammarisano, IGZ Grossbeeren, Germany
6. What is the role of far-red light on fruit crops? Ji Yongran, Wageningen University and Research, Netherlands
7. Can we improve resources use efficiency through optimised lighting? Giuseppina Pennisi, University of Bologna, Italy
8. Is there a market for vertical farming products? Maria Bustamante, Stockholm School of Economics, Sweden
9. Will our food supply chain be transformed by vertical farming? Christine Zimmermann-Lössl, AVF, Germany
10. Can UVA radiation power plant growth in vertical farming? Tao Li, CAAS, China
11. How can CO2 and light co-optimization improve propagation in Vertical Farms? Ricardo Hernandez NCSU, USA.
12. What are needed innovations for space crop production that may also benefit vertical farming? Gioia Massa, NASA, USA
13. How important is light intensity during lettuce propagation? Kellie J. Walters, University of Tennessee, USA
14. How many resources do we need to meet urban dietary needs through vertical farming? Isabella Righini, WUR - Wageningen University and Research, Netherlands
15. Can we produce chili fruits in indoor farming? Sabine Wittmann, HSWT, Germany
16. How can we increase light use efficiency in a vertical farm? Laura Carotti, University of Bologna, Italy
17. Can CFD through realistic plant geometries allow for improved flow conditions in vertical farms? Wito Plas, Ghent Univ., Belgium
18. Can we reduce energy footprint in vertical farms by disruptive cultivation protocols? Dafni Despoina Avgoustaki, Greece
19. How does Catharanthus roseus respond to UV-A and UV-C stresses in vertical farming systems? Marisa Sofia Coelho Lourenco
20. Can short-day plants flower under long-days? Malleshaiah SharathKumar
21. How can medicinal plants be efficiently cultivated in vertical farming? Ji-Yoon Lee, Japan
22. Can nighttime dim blue light prevent lettuce tipburn in indoor farms? John Ertle, USA
23. Can Successive Harvesting of Basil Increase Production in Vertical Farming? Michele Ciriello, Italy
24. Can UV-B lighting be optimized to produce value-added plant in vertical farming? Hyo-In Yoon, Korea
25. Does Far-Red promote growth and shelf life? Jie Zou, China
26. Does Far-Red influences fruit setting in sweet pepper? Sija Chen, the Netherlands
27. Can optimized air flow prevent tip-burn in vertical farms? Christopher Kaufmann, USA

Category 2: Pilot projects

28. What can we expect out of FoodE? (Part 1) - Interview with Isabella Righini
29. What can we expect out of FoodE? (Part 2) - Interview with Dr. Francesco Orsini
30. The role of multi-stakeholder collaborations in local food initiatives - Beatrice Walthall
31. What can we expect out of FoodE? (Part 3) - Interview with Prof. Matteo Vittuari
32. FoodE pilot project 'Prison Honey' by Urbani Cebelar
33. FoodE Pilot - CUIB
34. FoodE Pilot - 'Water House'
35. FoodE - Rooftop farm
36. FoodE Pilot - Salus Space
37. Medal Winning Honey: Nabolagshager
38. FoodE Pilot: ALMA VFarm - Work in process!
39. FoodE Pilot: Aquaponic Educational Farm
40. FoodE Pilot: ALMA VFarm - Work in process! Part 2
41. Polar Permaculture Solutions visits Fagereng school (Part 1)
42. Polar Permaculture Solutions visits Fagereng school (Part 2)
43. FoodE Pilot - Aquaponic Educational Farm - Interview with Antoine Coudard
44. FoodE pilot: AquaponicFarm Part 2
45. FoodE Mascot Contest
46. FoodE Pilot: Plant Factory for Demonstrational Purposes
47. FoodE Pilot: ALMA VFarm (Part 3)
48. FoodE Pilot: ALMA VFarm (Part 4)
49. FoodE: Masseria Antonio Esposito Ferraioli (Part 1)
50. FoodE: Masseria Antonio Esposito Ferraioli (Part 2)
51. FoodE Pilot: ALMA VFarm (Part 5)
52. The FoodE App
53. FoodE: The Festival of the New European Bauhaus
54. FoodE: Technical visit of the University of Bologna
55. FoodE: The University of Bologna visits Venice
56. FoodE Pilot: ALMA VFARM
57. FoodE Pilot: Prison Honey - Urban Beekeeping for rehabilitation and social inclusion
58. Towards sustainable local food systems with FoodE's pilots
59. FoodE pilot project: Urban agricultural park for participatory agricultural test spaces
60. FoodE Pilot - Water House (Part 2)
61. FoodE Pilot: Urban agricultural park for participatory agricultural test spaces
62. FoodE Pilot: Salus Space
63. FoodE Pilot: Serra Madre
64. FoodE Pilot: Tasen microgreens
65. FoodE Pilot: Sustainable small scale fishery in school canteens
66. FoodE Pilot: The Cité Maraîchère
67. FoodE Pilot: Plant factory for demonstrational purposes
68. FoodE Pilot: CUIB - Restaurant with local products
69. FoodE Pilot: Urban agricultural park with farmers and fishery market
70. FoodE: MyLocalFoodE - Kids Event in Lansingerland
71. FoodE: Urban Agricultural Park with Farmers and Fishery Market in Naples
72. FoodE: A Visit to La Cité Maraîchère de Romainville
73. FoodE: The Importance of Bees
74. FoodE: Interview with Isabella Righini (Wageningen University & Research)
75. FoodE: Cucumber Research (Wageningen University & Research)
76. FoodE: Greenhouse Research (Wageningen University & Research)
77. FoodE: Vertical Farming Lights (Wageningen University & Research)
78. FoodE: Greenhouse Types (Wageningen University & Research)
79. FoodE: Sustainable Tuna

Category 3: Participatory videos

80. FoodE: Exploring vertical farm and urban agriculture facilities in Malmö and Stockholm 1
81. FoodE: Exploring vertical farm and urban agriculture facilities in Malmö and Stockholm 2
82. FoodE: Exploring vertical farm and urban agriculture facilities in Malmö and Stockholm 3
83. FoodE: Exploring vertical farm and urban agriculture facilities in Malmö and Stockholm 4
84. FoodE: Exploring vertical farm and urban agriculture facilities in Malmö and Stockholm 5
85. FoodE: Exploring vertical farm and urban agriculture facilities in Malmö and Stockholm 6
86. FoodE: Exploring vertical farm and urban agriculture facilities in Malmö and Stockholm 7
87. FoodE: Exploring vertical farm and urban agriculture facilities in Malmö and Stockholm 8
88. FoodE: Exploring vertical farm and urban agriculture facilities in Malmö and Stockholm 9
89. FoodE: Exploring vertical farm and urban agriculture facilities in Malmö and Stockholm 10
90. FoodE: Exploring vertical farm and urban agriculture facilities in Malmö and Stockholm 11
91. FoodE: Exploring vertical farm and urban agriculture facilities in Malmö and Stockholm 12
92. FoodE: Exploring vertical farm and urban agriculture facilities in Malmö and Stockholm 13
93. FoodE: Exploring vertical farm and urban agriculture facilities in Malmö and Stockholm 14
94. FoodE: Exploring vertical farm and urban agriculture facilities in Malmö and Stockholm 15

Category 4: Educational videos

95. FoodE: Urban Agriculture
96. FoodE: Food Deserts
97. FoodE: Food Policy
98. FoodE: Food Justice
99. FoodE: Food Security
100. FoodE: Farmers' Markets
101. FoodE: Food Waste
102. FoodE: Community-supported Agriculture (CSA)
103. FoodE: Farm-to-table Restaurants
104. FoodE: Discovering hydroponics
105. FoodE: Aquaponic Farming - The Future of Urban Agriculture
106. FoodE: Sustainable Greenhouses
107. FoodE: The EU Food Policy

Category 5: Animation videos

108. (EN) FoodE: The Adventure of Terrix - The City's Food Superhero!
109. (EN) FoodE: The Adventures of Terrix - Discovering Sustainabilia

The animation video has also been translated in other European languages. See the translated versions below:

1. (NOR) FoodE: The Adventure of Terrix - The City's Food Superhero!
2. (RO) FoodE: The Adventure of Terrix - The City's Food Superhero!
3. (SI) FoodE: The Adventure of Terrix - The City's Food Superhero!
4. (NL) FoodE: The Adventure of Terrix - The City's Food Superhero!
5. (CAT) FoodE: The Adventure of Terrix - The City's Food Superhero!
6. (FR) FoodE: The Adventure of Terrix - The City's Food Superhero!
7. (IT) FoodE: The Adventure of Terrix - The City's Food Superhero!
8. (SP) FoodE: The Adventure of Terrix - The City's Food Superhero!
9. (DE) FoodE: The Adventure of Terrix - The City's Food Superhero!
10. (IT) FoodE: The Adventures of Terrix - Discovering Sustainabilia
11. (DE) FoodE: The Adventures of Terrix - Discovering Sustainabilia
12. (NL) FoodE: The Adventures of Terrix - Discovering Sustainabilia
13. (FR) FoodE: The Adventures of Terrix - Discovering Sustainabilia