



# WiFi4EU

**Better connecting Europe to its citizens**

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## **President Juncker's State of the Union (September 2016)**

*"Everyone benefiting from connectivity means that it should not matter where you live or how much you earn.*

*So we propose today to equip every European village and every city with free wireless internet access around the main centres of public life by 2020."*



# Promote free Wi-Fi connections in the main centres of community life

Support Wi-Fi equipment in public spaces (public administrations, libraries, parks, town squares, etc.) to

- allow all Europeans **experience the benefits of the Gigabit Society**, in line with the DSM connectivity objectives;
- encourage and promote **innovative digital services** developed locally: eGov, eHealth, eTourism, etc.



COMMISSION PRIORITY

Digital Single Market



# Direct impact on EU citizens and communities



**Investing  
€ 120 million by 2020**



**Connecting  
6.000-8.000 communities**



**Providing a single authentication  
system across Europe**

# Making Europe visible and helpful



A response to  
local needs



Same branding  
across the EU



Quality user-  
experience



## **Simple & non-bureaucratic: an applicant-friendly scheme**



- **Online applications**
- **Light decision making**
- **Payment by vouchers**
- **Remote and real-time monitoring**



***Fast deployment  
on the ground***

# Voucher Scheme



(1)  
Application



(3)  
Installation of WiFi



(6)  
Payment



# Shared involvement in the project



## European Commission

- Equipment and installation costs (CAPEX)
- Up to 100 % of total project cost
- € 15.000\* max. / Municipality



## Public Bodies

- Subscriptions to the ISP–Telecom operator (OPEX)
- At least 3 years in operation
- No commercial use



## National Regulatory Auth. / Ministries

- Removing regulatory obstacles to Wi-Fi deployment and quality of service



# Subsidiarity dimension



## *Municipality chooses*

- The "*main centres of local community life*"
- The Wi-Fi equipment company
- The Internet Service Provider



## *EU chooses*

- **Geographical distribution rules** (CEF work progr.)
- **Fair competition** ("first-come, first served" principle)



## "First-Come, First-Served" and "Geographically Balanced"

*Keeping the emulation... while avoiding concentration:*

- **Maximum 8 % for any Member State** of the call's budget allocation
- **Minimum 15 vouchers for each Member State**

*Other distribution keys*

- **One voucher per Municipality** (but open to wider/other public Wi-Fi networks)
- An **association formed by Municipalities** may apply on behalf of their members *individually*.

# First "pilot" call

(CEF Work Programme 2017)



- 1<sup>st</sup> Call budget: **€ 15 million**
- Voucher value: **€ 15,000\* per community**
- ➔ around **1.000 local communities** in total
- Eligibility: **Municipalities** (LAU-2 level) or **Associations formed by Municipalities**
- Voucher expiry date : **1,5 year** after issuing

*\* To be confirmed*

# Expected timeline

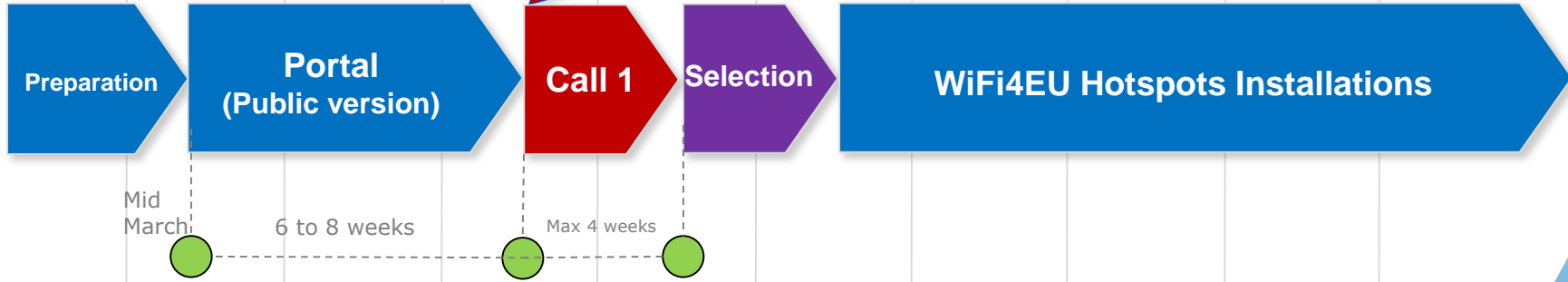


Q1 2018	Q2 2018	Q3 2018	Q4 2018
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**Registration phase:**

- Municipalities
- Wi-Fi installation Companies

**Call's launch:**  
*"First come, first served"*



# Any question on WiFi4EU ?

## TODAY:

- **Website:**  
<https://ec.europa.eu/digital-single-market/en/wifi4eu-free-wi-fi-europeans>
- **Frequently Asked Questions:**  
<https://ec.europa.eu/digital-single-market/en/faq/wifi4eu-questions-and-answers>
- **Email:** [CNECT-WIFI4EU@ec.europa.eu](mailto:CNECT-WIFI4EU@ec.europa.eu)

## TOMORROW:

- **Europe Direct Contact Centre (EDCC):**  
[https://europa.eu/european-union/contact\\_en](https://europa.eu/european-union/contact_en)
- **Broadband Competence Offices (BCO) !!!**
- **Portal's helpdesk**



**available in all EU languages**



## Monitoring, Registration & Authentication

### Two phase approach:

#### 1. (re)Use of local Wi-Fi networks' *captive portal* system:

- Need to embed javascript code from EC for monitoring purposes;
- RADIUS protocol for authentication to be used for easy transition to phase 2;
- WiFi4EU branding required (WiFi4EU SSID).

#### 2. EU-level common registration and authentication platform

- Local WiFi reconfiguration needed
- Roaming will be possible between different local Wi-Fi networks



## Wi-Fi Access Point requirements:

1. Number and location of APs to be declared
2. APs to comply with 802.11ac Wave I
3. APs to support 802.1x
4. AP to support at least 3 different SSIDs
5. AP will be able to handle at least 50 concurrent users without performance degradation
6. Under consideration:
  - Nxn MIMO
  - Beamforming
  - Filters to prevent LTE interference
  - Passpoint
  - Upgradable to WPA3