

BOOT (ROUND 1) APPLICATION TEMPLATE – FIXED WIRELESS INFRASTRUCTURE

If you include fixed wireless infrastructure as part of your proposed project plan, you are required to fill out this form. The asterisk denotes a required field for this form.

*APPLICANT NAME (DBA): _____

*PROJECT NAME: _____

*DATE (MM/DD/YYYY): _____

1) Propagation assumptions and underlying evidence (Narrative 2250-character limit);

- a) If a network modelling tool is used, describe the tool used and the version number.
- b) For the modeling tool, document all of the assumptions that were used in generating the model (antennae gain, number of sectors, EIRP, antennae height etc.).
- c) Are ground clutter maps incorporated in the analysis?

2) Number of end users covered by network (Narrative 900-character limit);

- a) Specify the maximum number of users the system is licensed to support.
- b) If this license can be expanded describe the process and cost.
- c) Describe the loading per wireless access node (AP, eNodeB, gNodeB) that would support the required throughput

2) Antenna site agreements (Narrative 900-character limit);

- a) Describe all antennae site agreements (contractor/operator, duration of agreement, number of locations consummated, type of location (tower, rooftop, combination))

3) Explanation of existing networks and equipment to be used (Narrative 2250-character limit);

- a) What is the connectivity to the Internet for the proposed network (speed, number of ISPs connected to etc.)? What is the month cost of this connection?
- b) Are you leveraging other middle mile networks to complete your build out? Are these networks in place today? What are the monthly costs? Is this an IRU, a lease or a service? What is the duration of the agreement?
- c) If you network uses wireless technology is the core equipment a part of this project to be owned by the operator or is it leveraging cloud services?

- 4) **Description of how assets owned by another entity will be used, if applicable (Narrative 2250-character limit);**
- a) Are any co-location facilities being used? If so describe facilities including owner, duration of lease and monthly cost of lease.
 - b) Are any network systems owned by others a part of the design? If so describe systems, lease duration and monthly costs.

5) Total number of miles of infrastructure deployment, including number of miles accounted for by existing infrastructure (Narrative 900-character limit);

- a) Total strand-miles of backhaul new fiber installed
- b) Total strand-miles of fronthaul new fiber installed
- c) Total strand-miles of backhaul existing fiber leased
- d) Total strand-miles of fronthaul existing fiber leased

6) Number of end users passed with network (Narrative 900-character limit);

- a) Using US Census Bureau statistics specify the number of households within the specified service boundaries. For multi-tenant structures count the number of single family units.
- b) If anticipated capture percentage calculated, provide the percentage number and any assumptions that went into that calculation.

7) Detailed description of design work needed, including vertical assets, easements and property acquisition (Narrative 2250-character limit);

- a) If contract is awarded, what additional design work needs to be completed?
- b) Would this work be completed by in-house staff or contracted consultants?
- c) What, if any, property purchase or lease agreements need to be completed?
- d) What additional easements and or rights-of-way still need to be acquired?

8) Description and type of equipment used for deployment and capable speeds (Narrative 2250-character limit);

- a) Specify the home or office routers/modems to be used (list all that are supported).
- b) Are routers/modems provided OR purchased by the customer?
- c) If provided,
 - i) How are they distributed?
 - ii) Can they be accessed remotely for support?
 - iii) Is wi-fi access provided for the customer?
 - iv) Are ethernet ports provided for the customer?
 - v) Are units available with external antenna as an option?

9) Explanation of frequency(ies) to be used for deployment (licensed or unlicensed) and mitigation of line-of-sight challenges (Narrative 2250-character limit);

- a) Specify which frequencies or band used for any wireless access networks or microwave backhaul.
- b) If FCC licenses held for any of the bands, provide FCC License numbers.
- c) If utilizing another's FCC licenses, provide FCC License number and a summary of the terms of the lease agreement.
- d) If there are any provisions for mitigation of line-of-sight issues, describe them.