

# OREGON UTILITIES FRAMEWORK IMPLEMENTATION TEAM

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SEPTEMBER 30, 2016





Utilities

# CHALLENGES

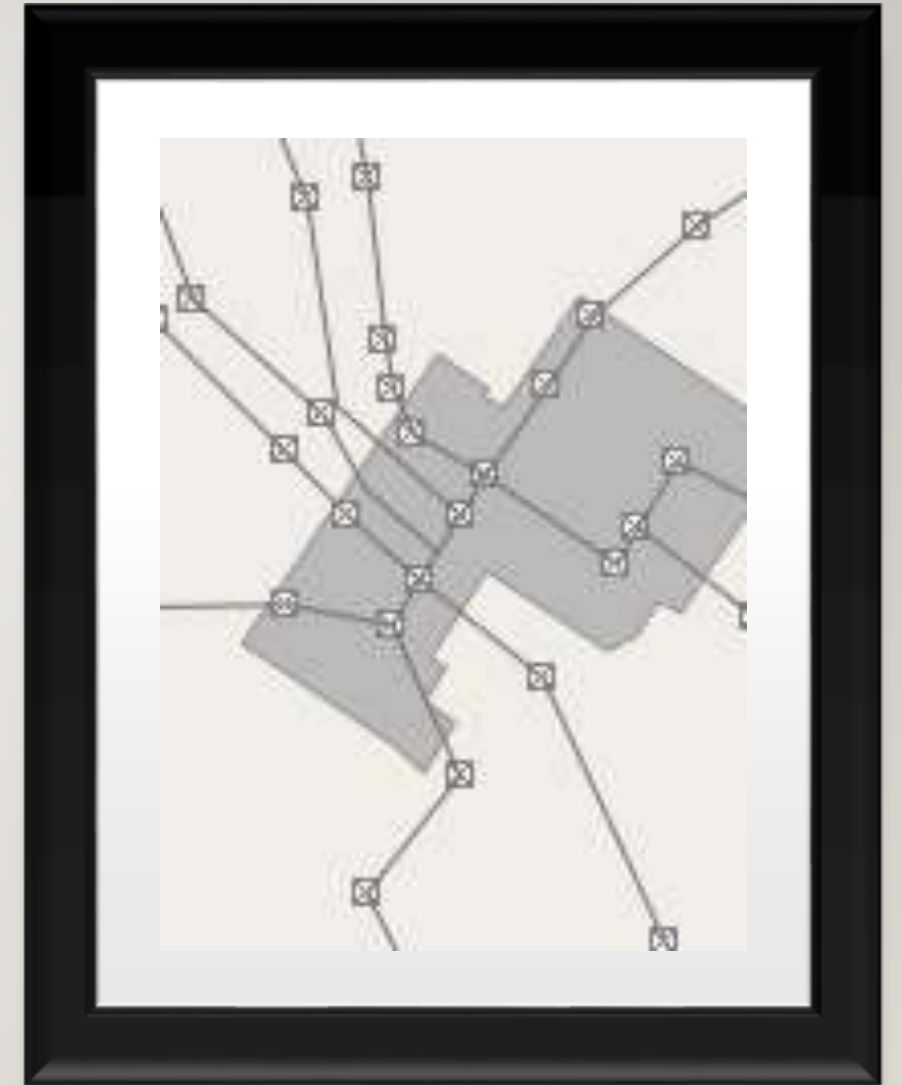
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- No consensus on public data
- Private entities are reluctant to share data
- Public agencies have diverse needs
- Geodata design is challenging to meet varied needs


# OPEN STREET MAP (OSM)

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Open Data is a potential source and mechanism to collaborate



# OSM DESIGN

Key	Value	Comment	Recommendation
<a href="#">power</a>	<b>line</b> 	It's a power line, normally mapped as a .	mandatory
<a href="#">voltage</a>	<operating voltage>	The voltage at which the line is operated	recommended
<a href="#">operator</a>	<cable operator>	The name of the company which operates this power line section	recommended
<a href="#">cables</a>	<number of cables>	The number of different phase conductors for this power line section	recommended
<a href="#">circuits</a>	<number of circuits>	The number of different and separated electrical circuits built within this power line section	recommended
<a href="#">wires</a>	<wire bundle per conductor>	The bundle form factor for each conductor of the power line	optional
<a href="#">frequency</a>	<operating frequency>	The frequency given in Hertz at which the power line is operating	optional
<a href="#">name</a>	<name>	The name of this power line section.	optional
<a href="#">ref</a>	<reference>	The reference of this power line section	optional

# OSM POINTS & AREAS

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- : power=station transformer**
- : power=transformer points tower**
- : power=tower OR power=portal pole**
- : power=pole substation point**
- : power=substation OR power=sub\_station switch**
- : power=switch converter point**
- : power=converter compensator point**
- : power=compensator generator**
- : power=generator areas switchgear**
- : power=switchgear converter area**
- : power=converter compensator area**
- : power=compensator substation area**
- : power=substation OR power=sub\_station generator**
- : power=generator power plant**
- : power=plant**



Electricity distribution

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