SB 53 - Fiber Sharing

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OSIT

Denise Inda
NDOT
SB 53

Modified definitions to include fiber optics and related infrastructure

- Information System
- Transportation System
- Highway
EXPANDED OSIT ROLE

- Develop strategic plan for broadband services
- Apply for federal/state funding for broadband expansion
- Expand fiber infrastructure for telehealth and communications systems
- Manage data related to fiber optic assets
- Administer fiber trade policy
- Chair and support the Technical Advisory Council (TAC)
TECHNICAL ADVISORY COMMITTEE (TAC)

- 7 agency members
- Appointment of members complete
- Meet in 2018
- TAC roles
  - Assist NDOT in planning
  - Assist NDOT in establishing value
  - Approve interstate agreements
  - Coordinate state agency and telecom provider efforts
NDOT AUTHORITY

Grant longitudinal access for use of conduit, facilities and wireless access for fair compensation

- Develop regulations and policies
- Enter into an agreement
- Issue an encroachment permit
CONTENT OF AGREEMENT

- Terms of renegotiation
- Terms of maintenance
- Term of 30 years or less
- Does not grant a property interest in a r/w
- Fair, reasonable, competitively neutral, and nondiscriminatory compensation
COMPENSATION

- Based on a fair-trade value
- Interstate: cash or in-kind compensation
- Non-interstate: in-kind compensation
- Monetary compensation placed in the Highway fund
- In-kind compensation used for statewide telecommunications purposes
- Establish NDOT regulations & policies
- Develop valuation formula
- Identify NDOT needs & priorities
- Identify state needs & priorities
- Coordinate with OSIT and TAC
- Coordinate with telecom industry
Trade, trade, trade
FIBER TRADE EXAMPLE

Example - Proposed ITS Fiber Build

71.4 mi
- Bi-annual planning meetings with providers and state & local agencies
- Establish single POC to simplify inquiries
- Establish r/w valuations with 5 yr updates
- Maximize effectiveness of trades
- Keep trade balance sheet
EX: UTAH, 2006

- ~631 miles Fiber/Conduit
- ~100 miles Fiber/Conduit Traded
EX: UTAH, 2015

- ~960 miles Fiber/Conduit
- ~1,000 miles Fiber/Conduit Traded
RETURN ON INVESTMENT

UDOT's Fiber Optic Network 2011-2015

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Combined Fiber/Conduit/Circuit Miles</th>
<th>UDOT Fiber/Conduit Miles</th>
<th>Trade Value</th>
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</thead>
<tbody>
<tr>
<td>2011</td>
<td>47.22</td>
<td>781</td>
<td>$33,935</td>
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<tr>
<td>2012</td>
<td>48.32</td>
<td>792</td>
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<td>2013</td>
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<td>2014</td>
<td>62.69</td>
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<td>2015</td>
<td>74.65</td>
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</tbody>
</table>

Trade Miles - 812
Trade Value - $28,829,340
BENEFITS

- Expands infrastructure statewide
- Reaches underserved and unserved areas
- Attracts fiber telecom providers to cities and counties
- Reduces costs through coordinated construction efforts
SUCCESES

- Utah
- Arizona
- Minnesota
- City of Boston, MA
- City of Berkeley, CA
- City of Bellevue, WA
- Arlington County, VA
- City of San Francisco, CA
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