



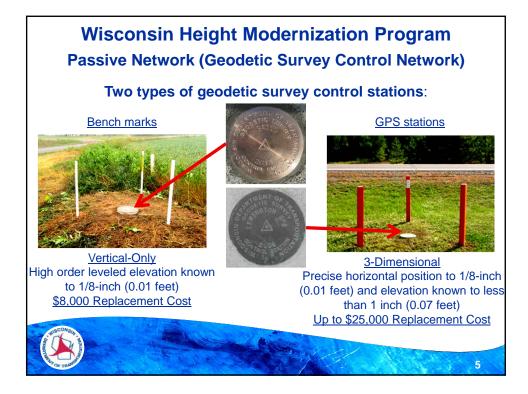
WISCORS STAKEHOLDER 2 MEETING
AGENDA

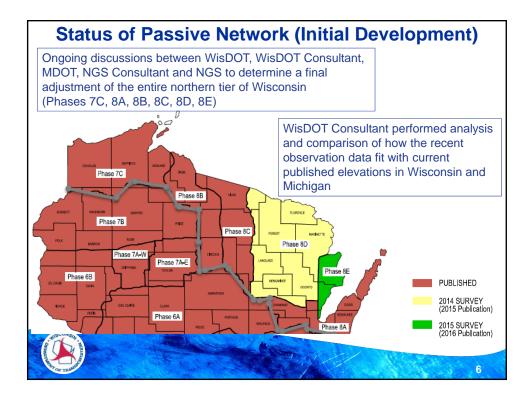
Time	Торіс
12:15 – 12:30 pm	Sign In
12:30 – 1:15 pm	<ul> <li>The Wisconsin Height Modernization Program</li> <li>Background and Development</li> <li>Current Status of WI-HMP (Active &amp; Passive Networks)</li> <li>WISCORS System Components, Maintenance Plan, Cost &amp; State Statute</li> <li>WISCORS Stakeholder 1: Questionnaire Analysis</li> <li>WISCORS System Proposed Revised Subscription Options, Registration/Billing &amp; Exemptions</li> <li>Fee Development – Other States</li> <li>Communications Plan</li> </ul>
1:15 – 2:00 pm	Question and Answer Session: Requests for input/feedback from attendees

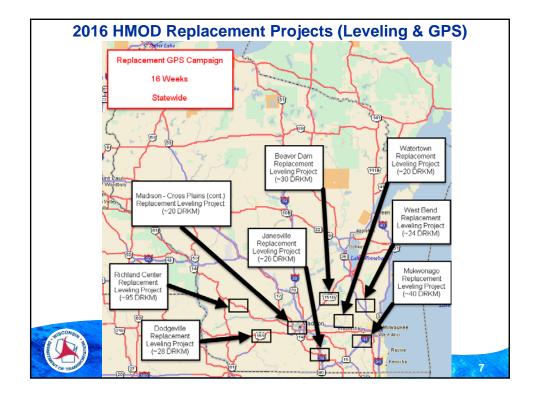
## Wisconsin Height Modernization Program Background and Development

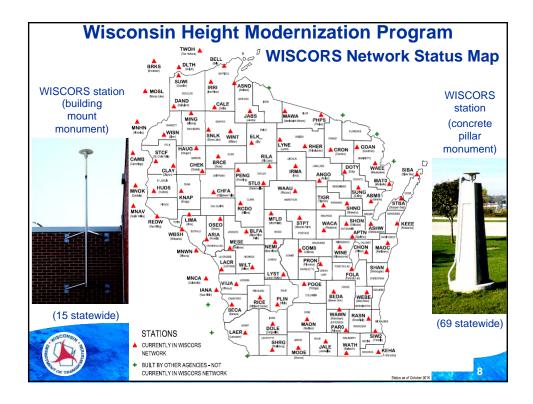
- The Wisconsin Height Modernization Program (WI-HMP) was established by the National Geodetic Survey (NGS), an agency of NOAA, to enhance the accuracy and redundancy of latitude, longitude, and elevation information used in the construction of roads, bridges, and other applications.
- In 1998, NOAA was directed by Congress to implement the system throughout the country. In Wisconsin, NOAA provided annual grants from 2002 through 2011. Since inception, over \$20 million has been invested in this system in Wisconsin; 70% coming from NOAA grants, 30% from WisDOT.
- WI-HMP consists of both a passive and an active network which together provide precise threedimensional positioning.
- The passive network known as the Geodetic Control Network provides the basic framework of latitude, longitude, and elevation data on survey marks throughout Wisconsin.
- The active network, the Wisconsin Continuously Operating Reference Stations (WISCORS), provides a cost effective method with the aid of GPS to obtain position information with high accuracy, in seconds and with less equipment and labor.
- This combined survey efficiency benefits and supports the state's highway improvement projects through accuracies in design surveys/construction and mapping applications. Other applications include but not limited to precision agriculture, flood plain mapping, GIS, etc.

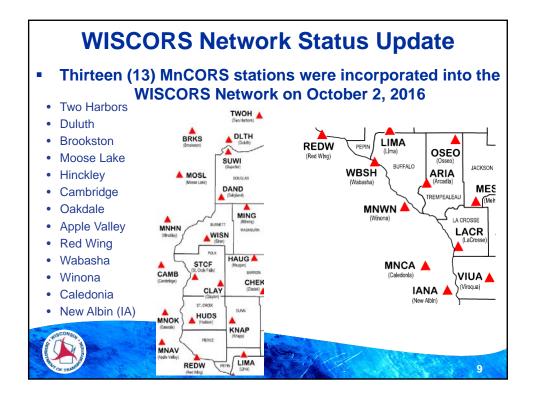


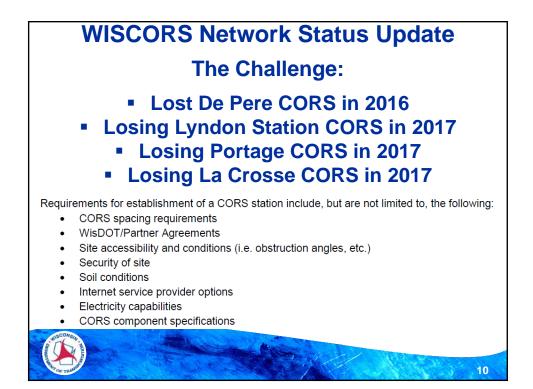










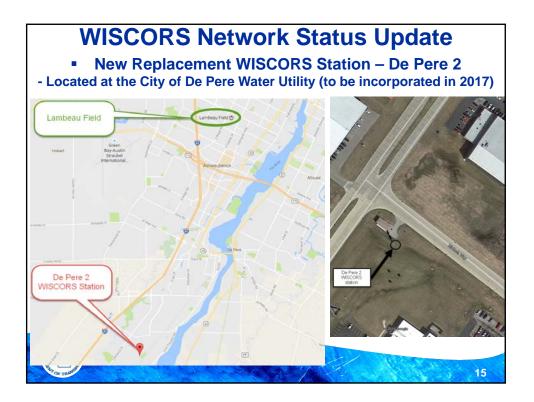




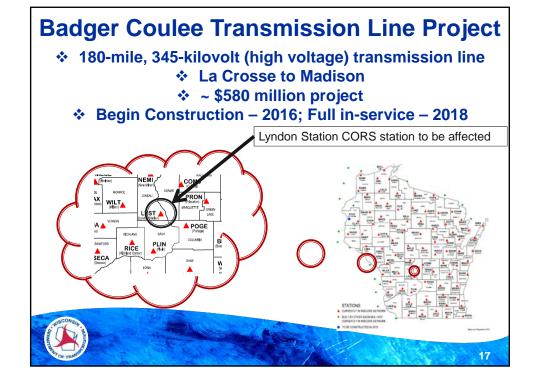


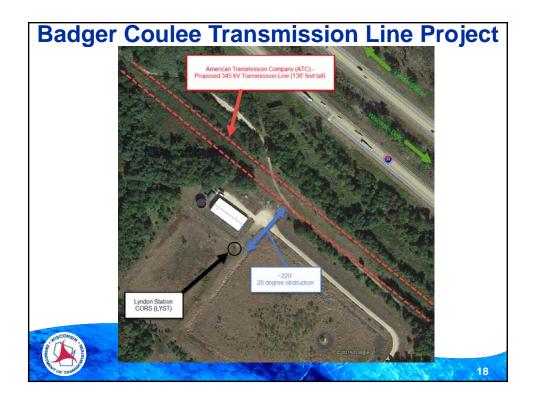


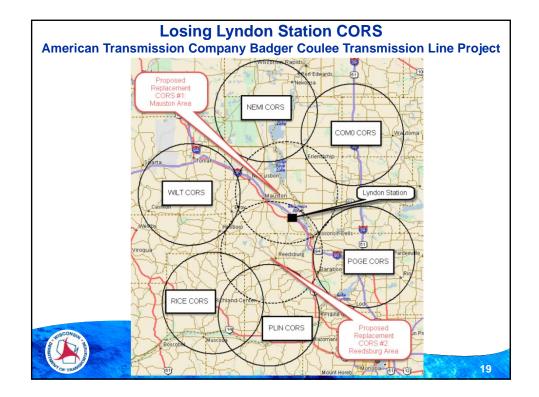


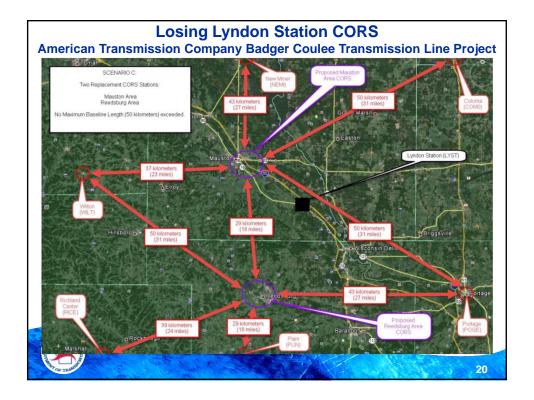


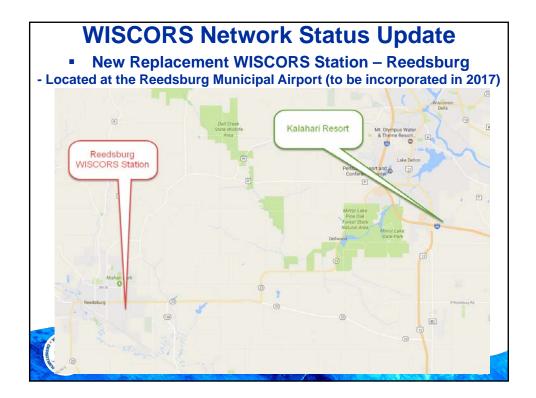








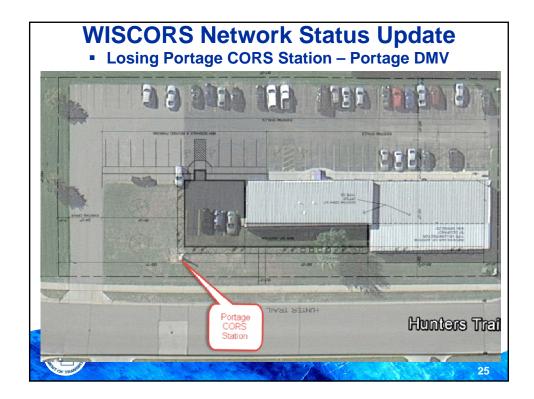


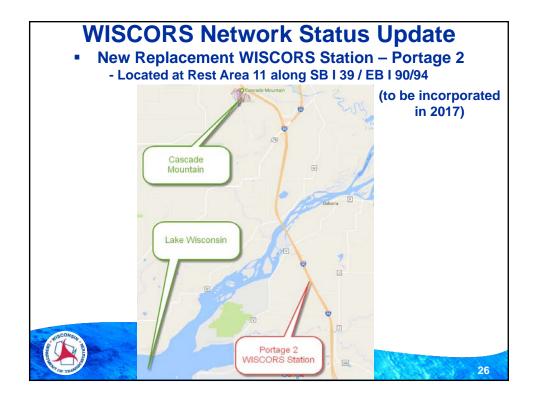










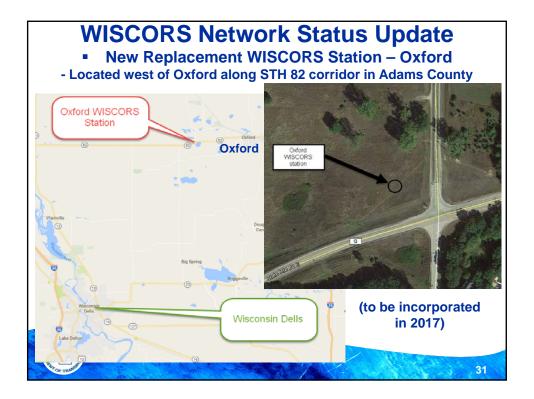






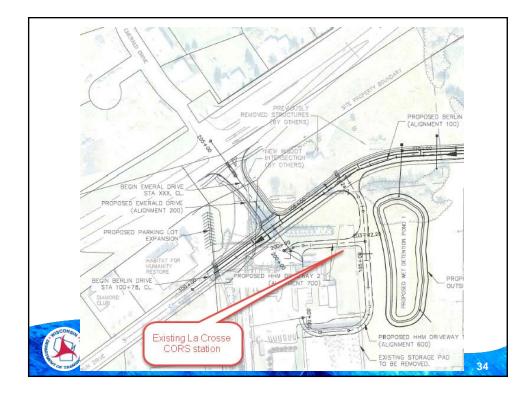










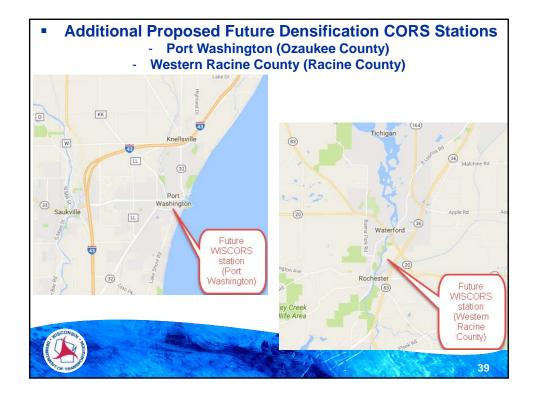


















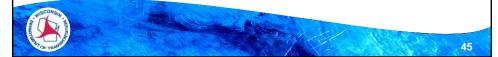




## Wisconsin Height Modernization Program State Statute

## 85.63 Surveying reference station system.

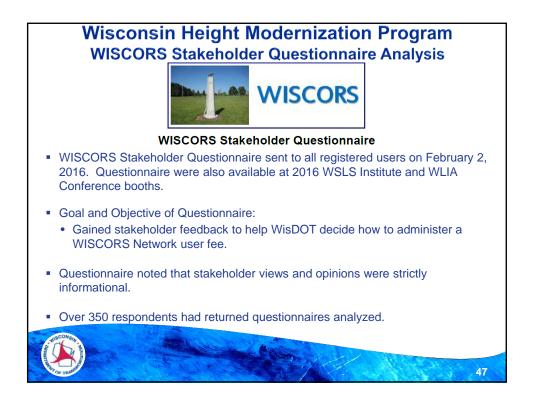
- 85.63(1) The department shall administer a surveying reference station system consisting of all of the following:
- 85.63(1)(a) A passive system consisting of a network of monuments located throughout the state that are used to generate latitude, longitude, and elevation data.
- 85.63(1)(b) An active surveying reference station system consisting of reference stations statewide that continuously transmit global positioning system data to a system server, and the server that receives and processes the data received from the reference stations.
- 85.63(2) The department may charge a fee for providing access to the system under sub. (1) in an amount to be established by rule. All fees received under this subsection shall be deposited in the general fund and credited to the appropriation account under s. 20.395 (3) (jg). (85.63 History: 2013 a. 20.)
- 20.395 (3)(jg). Surveying reference station system. From the general fund, all moneys received under s. 85.63 (2), for maintenance and operation costs of the surveying reference station system under s. 85.63 (1).

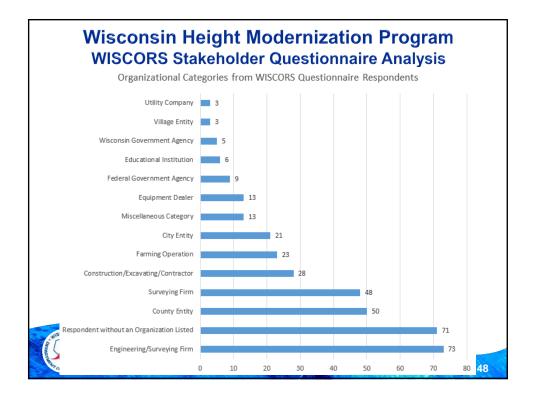


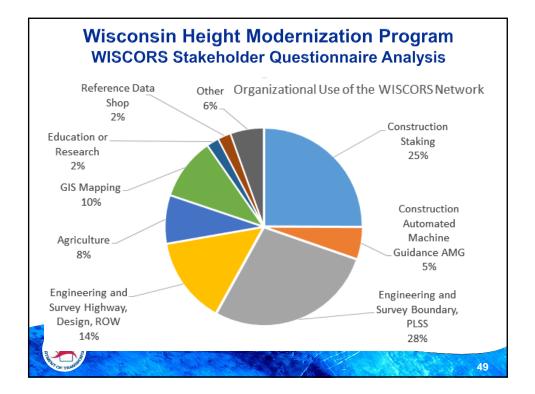
# Wisconsin Height Modernization Program State Statute

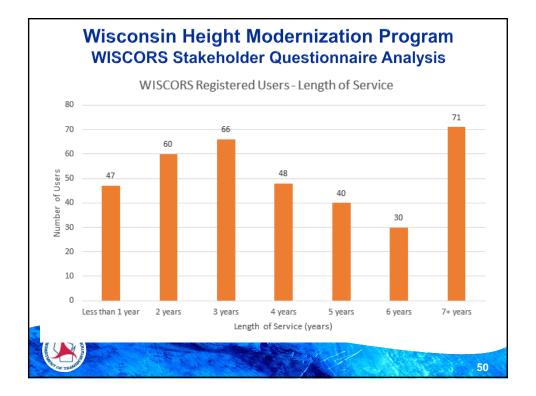
- 2013 Act 20, the 2013-15 Biennial Budget Act, created s. 85.63, Wis. Stats, which directs the Wisconsin Department of Transportation (DOT) to administer a Surveying Reference Station System program and authorizes DOT to collect a fee for user access to the system.
- S. 85.63 (2) authorizes DOT to establish the fee by administrative rule. The administrative rule gains its authority from the statute. The rule's purpose is to provide additional detail on the administration of the provision and the fee.
- The Statement of Scope for this Permanent Rule was approved by DOT Secretary Mark Gottlieb, P.E., as required by s. 227.135(2), Wis. Stats. SS 080-14, on December 5, 2013, and was approved by the Governor on January 24, 2014, published in Wisconsin Administrative Register No. 698 on March 1, 2014.
- Permanent Rule Making: Wisconsin Administrative Code Trans Ch. 58 Relating to: Surveying Reference Station System (Height Modernization) User Fee.
  - Establish the fee at a level that will generate funding to cover the hardware, software and
    other costs associated with ongoing upgrades and maintenance of the surveying reference
    station system and to provide for needed server and system component replacement on a
    lifecycle basis.
  - Distribute the costs of the surveying reference system upgrades, maintenance and replacement among system users.

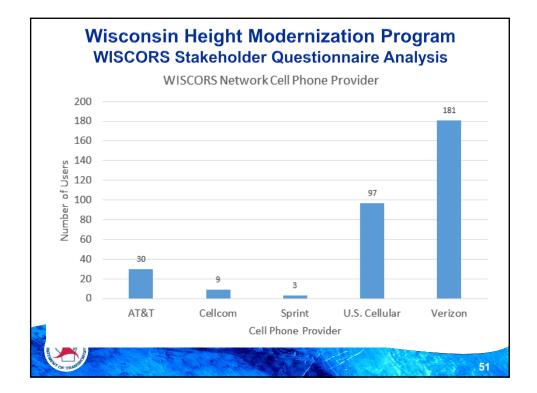


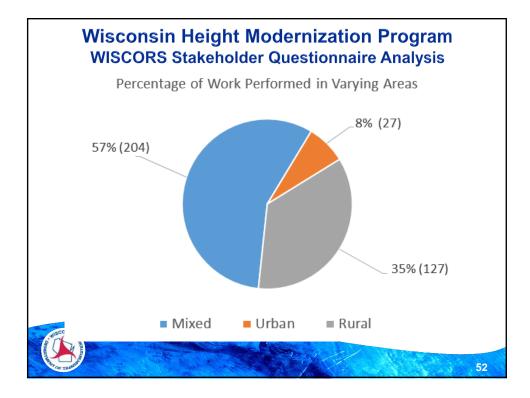


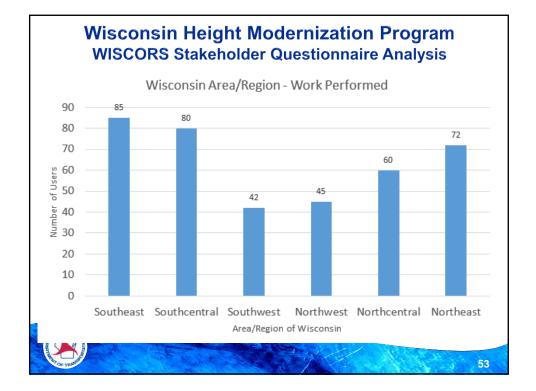


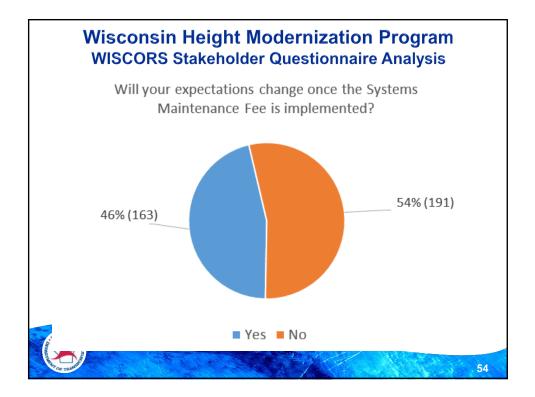


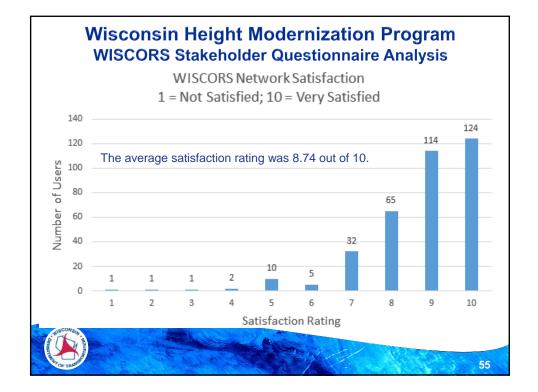


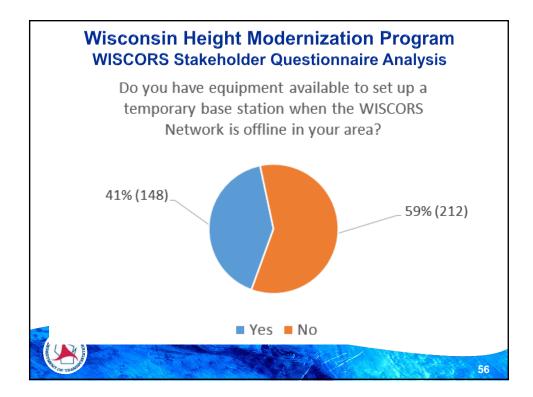


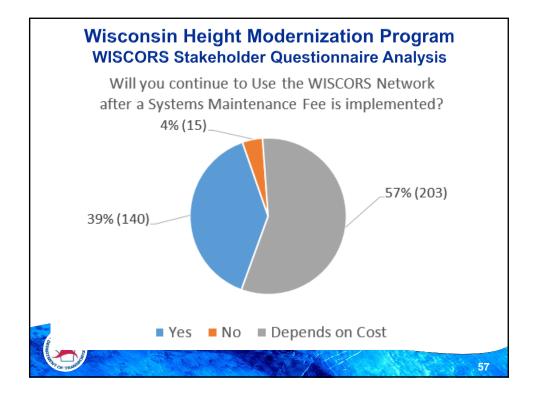














## Wisconsin Height Modernization Program WISCORS System Maintenance Fee Development Revised Proposed Subscription Options

#### Example 1:

- Organization A to subscribe 7 users for one year.
  - \$300 per subscriber per year x first 5 subscribers = \$1,500.
  - \$150 per subscriber per year thereafter x 2 subscribers = \$300.
- Organization A total for one year = \$1,800 for 7 subscribers.

#### Example 2:

- Organization B to subscribe 3 users for one year, 2 users for three months each.
  - \$300 per subscriber per year x 3 subscribers = \$900.
  - \$50 per subscriber per month x 2 subscribers x 3 months = \$300.
- Organization B total for combined yearly and monthly subscriptions = \$1,200 for 5 subscribers.



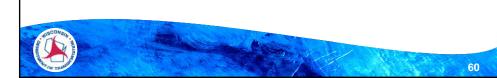
## Wisconsin Height Modernization Program WISCORS System Maintenance Fee Development Revised Proposed Subscription Options

### Example 3:

- Agriculture User C to subscribe 1 user for 3 months total for spring planting / fall harvesting.
  - \$50 per subscriber per month x 1 subscriber x 3 months = \$150.
- Agriculture User C = \$150 for 3 months for 1 subscriber.

#### Example 4:

- Vermont Firm X to subscribe 4 users for 1 week.
  - \$50 per subscriber per month x 4 subscribers x 1 month = \$200.
- Vermont Firm X = \$200 for 1 week for 4 subscribers.



# Wisconsin Height Modernization Program WISCORS System Maintenance Fee Development Registration and Billing Proposed Registration and Billing System still under development. Registration will be different! To register, each proposed subscriber to complete: Subscription level form(s). Department of Administration (DOA) form(s).

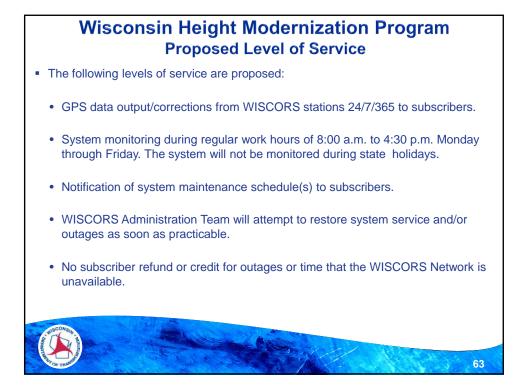
- Proposed acceptable methods of payment:
  - Cash.
  - Check.
  - Money order.
- Billing will not commence until after the Rule goes into effect (State FY18) and subscribers have been notified.

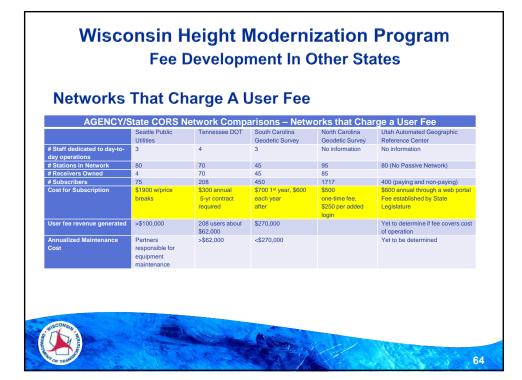


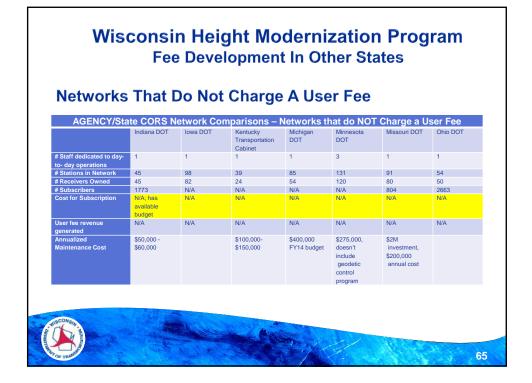
# Wisconsin Height Modernization Program WISCORS System Maintenance Fee Development Exemptions

Proposed Exempt Entities:

- Wisconsin Department of Transportation subscribers.
- WISCORS Cooperative Partners.
- Border States (Minnesota DOT, Iowa DOT, Michigan DOT).
- Higher Education Institutions:
  - Private Colleges (independent).
  - Public Colleges (state colleges/universities).
- Reference Data Shop for Post Processing.





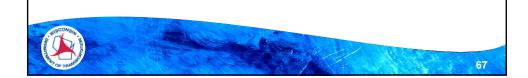




## Wisconsin Height Modernization Program Communication Plan

Communicate Rule Completion in State FY18:

- Notice of Public Hearing:
  - Opportunity to submit comments to the Wisconsin Department of Transportation
     http://adminrules.wisconsin.gov
- News Release Social Media.
- 2018 WSLS Institute WISCORS Update session to be scheduled.
- Display panel update for Agriculture and Corn-Soy shows.
- Consider Final Stakeholder meeting when Billing System is operable and before first bill is sent out.



## Wisconsin Height Modernization Program WISCORS Network Operation Contacts

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