Animal Warning System

1. Animal Warning System Name:

______________________________________________________________________________

2. Location(s) (e.g., route and mile point or description)

______________________________________________________________________________

3. What is the current system status?
   - Currently deployed
   - Planned
     - Planned deployment date:_____________________

4. What is the road classification where this system is located?
   - Freeway or other limited access highway
   - Other multi-lane highway (non-limited access)
   - 2-lane highway

5. What road technologies are used for roadside detection of animal presence?
   - Radar detection of on-road objects
   - Video
   - Electric detection fence using microwave or infrared sensors
   - Radio transmitter collars for animals
   - Other

6. What technologies are used to communicate with vehicles?
   - Dynamic message sign
   - Highway advisory radio
   - In-vehicle
   - Flashing lights
   - Other
7. **With what other systems or agencies does this system interface?**
   - Data archiving
   - Public safety
     - State police
     - Local agencies
   - Traffic management
   - Incident management
   - Traveler information / Information service providers
   - Other states
   - Other

**Bicycle Warning Systems**

8. **Bicycle Warning System Name:**
   

9. **Location(s) (e.g., route and mile point or description):**
   

10. **What is the current system status?**
    - Currently deployed
    - Planned
      - Planned deployment date: ____________________________

11. **What is the road classification where this system is located?**
    - Freeway or other limited access highway
    - Other multi-lane highway (non-limited access)
    - 2-lane highway

12. **What is the situation where this system is located?**
    - Tunnel
    - Road section with restricted visibility
    - Other

13. **What technologies are used for roadside detection of bicyclists?**
    - Manual (activated by bicyclist)
    - Automatic (sensor detects bicyclist)
    - Other
14. What technologies are used to communicate with vehicles?
   - Dynamic message sign
   - Highway advisory radio
   - In-vehicle
   - Flashing lights
   - Other

15. With what other systems or functions does this system interface?
   - Data archiving
   - Public safety
     - State police
     - Local agencies
   - Traffic management
   - Incident management
   - Traveler information / Information service providers
   - Other states
   - Other

Environmental Road Hazard Warning System

16. Environmental Road Hazard Warning System Name:

17. Location(s) (e.g., route and mile point or description)

18. What is the current system status?
   - Currently deployed
   - Planned
     - Planned deployment date

19. What is the road classification where this system is located?
   - Freeway or other limited access highway
   - Other multi-lane highway (non-limited access)
   - 2-lane highway
20. What hazards are detected by this system?

**Visibility**
- Fog
- Snow
- Smoke
- Dust/Sand
- Wind
- Other

**Road Conditions**
- Ice on bridge
- Icy road
- Wet road
- Obstructions on road
- Flooding
- Other

21. What technologies/methods are used to detect hazardous conditions?

**Forecasted/Actual Conditions**
- National Weather Service
- Weather modeling
- Road Weather Information Systems (RWIS)

**On-Site Sensors**
- Closed circuit television (CCTV)
- Infrared
- Particulate
- Wind speed detector
- In-pavement sensor
- Other

22. What information does this system collect about vehicles for use in assessing the need for a warning?

- Vehicle speed
- Vehicle classification
- Weight (weigh-in-motion)
- Other

23. What technologies are used to communicate with vehicles?

- Dynamic message signs
- Flashing lights
- In-vehicle warning
- Highway advisory radio
- In-pavement roadside edge lights
- Other
24. Does the system warning include a variable speed limit?
   Yes
   No

25. What type of message is provided by this system?
   Tailored information provided to specific vehicle
   Generic warning message provided to all vehicles

26. With what other systems or agencies does this system interface?
   Data archiving
   Public safety
     State police
     Local agencies
   Traffic management
   Incident management
   Traveler information / Information service providers
   Other states
   Other

Intersection Crossing Detection System

27. Intersection Crossing Detection System Name:

28. Location(s) (e.g., routes intersecting, route and mile point)

29. What is the current system status?
   Currently deployed
   Planned
     Planned deployment date:__________________________

30. What is the road classification where this system is located?
   Freeway or other limited access highway
   Other multi-lane highway (non-limited access)
   2-lane highway

31. Where are vehicle detection sensors located?
   Sensors on all legs of an intersection
   Sensors on the major road only
   Other
32. **What technologies are used to communicate with vehicles?**
   - Dynamic message sign
   - Flashing lights
   - In-vehicle
   - Other

33. **With what other systems or agencies does this system interface?**
   - Data archiving
   - Public safety
     - State police
     - Local agencies
   - Traffic management
   - Incident management
   - Traveler information / Information service providers
   - Other states
   - Other

**Pedestrian Safety System**

34. **Pedestrian Safety System Name:**

35. **Location(s) (e.g., route and mile point or description):**

36. **What is the current system status?**
   - Currently deployed
   - Planned
     - Planned deployment date

37. **What is the road classification where this system is located?**
   - Freeway or other limited access highway
   - Other multi-lane highway (non-limited access)
   - 2-lane highway

38. **What technologies are used to detect the presence of pedestrians and/or vehicles?**
   - Vehicle detection sensors (e.g., loops, video, acoustic)
   - Microwave pedestrian detector
   - Infrared pedestrian detector
   - Manually operated pedestrian detector
   - Other
39. What technologies are used to communicate with pedestrians and/or vehicles?
   - In-pavement lights illuminate crosswalk
   - Illuminated crosswalk signs
   - Dynamic message signs
   - Flashing lights
   - In-vehicle warning
   - Other

40. What type of message is provided by this system?
   - Alert to approaching vehicles to pedestrian presence
   - Alert to pedestrian of approaching vehicle
   - Other

41. With what other systems or agencies does this system interface (share data)?
   - Data archiving
   - Public safety
     - State police
     - Local agencies
   - Traffic management
   - Incident management
   - Traveler information / Information service providers
   - Other states
   - Other

**Rail-highway Crossing Safety System**

42. Rail-highway Crossing Safety System Name:

43. Location(s) (e.g., route and mile point or description)

44. What is the current system status?
   - Currently deployed
   - Planned
     - Planned deployment date: __________________________

45. What is the road classification where this system is located?
   - Freeway or other limited access highway
   - Other multi-lane highway (non-limited access)
   - 2-lane highway
46. What information is collected by this system?
   - Train presence
   - Train speed
   - Detection of vehicle intrusion
   - Detection of pedestrian intrusion
   - Second train approaching
   - Other

47. What technologies are used to communicate with vehicles?
   - Dynamic message sign
   - Highway advisory radio
   - In-vehicle warning
     - Ambulance
     - Police vehicles
     - Transit
     - Other
   - Flashing lights
   - Other

48. With what other systems or agencies does this system interface?
   - Data archiving
   - Public safety
     - State police
     - Local agencies
   - Traffic management
   - Incident management
   - Traveler information / Information service providers
   - Other states
   - Other

Road Geometry Warning System

49. Road Geometry Warning System Name:
   _______________________________________________________________________________________

50. Location(s) (e.g., route and mile point or description)
   _______________________________________________________________________________________

51. What is the current system status?
   - Currently deployed
   - Planned
     - Planned deployment date: ______________________________
52. What is the road classification where this system is located?
   Freeway or other limited access highway
   Other multi-lane highway (non-limited access)
   2-lane highway

53. What hazards are handled by this system?
   Truck roll over
   Curve
   Downhill
   All vehicles
   Curve
   Downhill
   Other

54. What information does this system collect about vehicles?
   Vehicle speed
   Vehicle classification
   Vehicle weight (weigh-in-motion)
   Vehicle height
   Other

55. What information does this system collect about environmental conditions to determine whether a warning is needed?
   Road surface condition
   Other

56. What technologies are used to communicate with vehicles?
   Dynamic message sign
   Flashing lights
   In-vehicle warning
   Highway advisory radio
   In-pavement roadside edge lights
   Other

57. What type of message is provided by this system?
   Generic warning message provided to all vehicles
   Tailored information provided to specific vehicle
58. With what other systems or agencies does this system interface?
   Data archiving
   Public safety
   State police
   Local agencies
   Traffic management
   Incident management
   Traveler information / Information service providers
   Other states
   Other

Automatic Anti-Icing Systems

59. Automatic Anti-Icing System Name:
______________________________________________________________

60. Location(s) (e.g., route and mile point, longitude and latitude, bridge number, or description)
______________________________________________________________

61. What is the current system status?
   Currently deployed
   Planned
   Planned deployment date:__________________________

62. What is the road classification where this system is located?
   Freeway or other limited access highway
   Other multi-lane highway (non-limited access)
   2-lane highway

63. Where is the anti-icing system located?
   Bridge
   Overpass
   Underpass
   Exit lane
   Other

64. What is the primary purpose for system installation?
   Evaluation
   Road curvature
   Road grade
   High accident history
   Other
65. What anti-icing methods are used by this system?
   Automatic sprayers
   Other

66. What information is collected by this system?
   Environmental conditions (air temperature, barometric pressure, humidity)
   Roadway surface temperature
   Roadway icing
   Roadway chemical concentration
   Other

67. What are the remote capabilities of this system?
   Automatically activated
   When environmental conditions make icing likely
   When ice detected on road surface
   System automatically reports when activated
   System may be overridden or manually operated remotely
   Status can be queried remotely
   Other

Avalanche/Slide Management Systems

68. Avalanche/Slide Management System Name:

69. Location(s) (e.g., route and mile point or description)

70. What is the current system status?
   Currently deployed
   Planned
   Planned deployment date:___________________________

71. What is the road classification where this system is located?
   Freeway or other limited access highway
   Other multi-lane highway (non-limited access)
   2-lane highway

72. What is the primary purpose for system installation?
   Evaluation
   Road curvature
   Road grade
   High accident history
   Other
73. What information is collected by this system?
   Avalanche/slide detection sensors
   Vehicle detection sensors on corridors prone to avalanches
   Other

74. What technologies are used to communicate with vehicles?
   Traveler alerts
   Dynamic message sign
   Highway advisory radio
   In-vehicle warning
   Flashing lights
   Radio contact with maintenance vehicles
   Other

75. What methods are used to limit access to avalanche/slide area?
   Coupled gate to close road
   Other

76. With what other systems or agencies does this system interface (transmit notification of avalanche)?
   Data archiving
   Public safety
   State police
   Local agencies
   Traffic management
   Incident management
   State DOT
   Maintenance agencies
   Traveler information/Information service providers
   Other

**Maintenance Fleet Management Systems**

77. Maintenance Fleet Management System Name:

______________________________

78. What is the current system status?
   Currently deployed
   Planned
   Planned deployment date

79. What is the type of fleet?
   Snow removal
   Maintenance
   Other
80. What in-vehicle technologies are used to collect information?
   - Automatic vehicle location (AVL)
   - Road surface condition sensors
   - Weather sensors
   - Engine diagnostic sensors
   - Lane position sensors (visual, road reference, or radio)
   - Collision warning sensors
   - Snowplow position (up/down) sensors
   - Rate of chemical application sensors
   - Inventory level of chemicals or sand on vehicle sensors
   - Other

81. What technologies are used?
   - Cell phones
   - Pagers
   - Mobile data terminals
   - Two-way radios - voice only
   - Two-way radios - voice and data
   - Interoperable with regional service vehicles (transit, maintenance, public safety)
   - Other

82. What are the vehicle dispatch and control capabilities of this system?
   - Computer aided dispatch of maintenance vehicles
   - Route optimization software to allow real-time modification of routes
   - Automated reporting by systems of maintenance problems
   - Automated environmental warnings (e.g., flood)
   - Other

83. What information is shared through coordinated multi-agency reporting?
   - Accidents
   - Road conditions
   - Weather conditions
   - Other

84. Which services are coordinated through a multi-agency dispatch center?
   - Emergency services
   - Snow removal
   - Maintenance activities
   - Other
Work Zone Management Systems

85. Work Zone Management System Name:
___________________________________________________________________________________________

86. What is the current system status?
   Currently deployed
   Planned
   Planned deployment date:__________________________

87. What is the road classification where this system is located?
   Freeway or other limited access highway
   Other multi-lane highway (non-limited access)
   2-lane highway

88. What type of traffic management center manages traffic for work zones?
   Portable traffic management center
   Permanent traffic management center
   None

89. What types of sensors are deployed at work zones?
   Queue length detectors
   CCTV
   Vehicle speed
   Traffic volume
   Travel time
   Vehicle intrusion into work zone
   Work team intrusion into roadway
   Other

90. What technologies are used to communicate with vehicles?
   Portable message sign
   Permanent dynamic message sign
   Highway advisory radio
   In-vehicle warning
   Flashing lights
   Series of warning signs activated progressively farther from the work site as sensors detect increases in traffic
   Temporary speed limits
   Temporary vehicle width, height, or width restrictions
   Other
91. What automated maintenance systems are used?
   Remote controlled mowers
   Highway cone placement and retrieval vehicle
   Other

92. With other systems or agencies receive data on work zone status?
   Data archiving
   Public safety
     State police
     Local agencies
   Traffic management
   Incident management
   Traveler information/Information service providers
   Other states
   Other

Traveler Information System

93. Traveler Information System Name:
   ___________________________________________________________________________________________

94. Description:
   ___________________________________________________________________________________________
   ___________________________________________________________________________________________
   ___________________________________________________________________________________________

95. What is the current system status?
   Currently deployed
   Planned
     Planned deployment date:__________________________

96. What information is disseminated by the system?
   Roadway Information
     Road closure Detours
     Alternate routes
     Work zones/construction events
     Weather
     Road surface conditions
     Road restrictions
     Incidents
     Congestion
     CCTV images
     Other
Traveler and Tourist Information
Maps
Directions
Special events
Points of interest
Hotel accommodations
Restaurants
Recreational areas
National Parks information
Local event calendars
Trail information
Parking information
Parking space availability
Other

Public Transportation
Transit schedules
Transit adherence to schedules
Rail schedules
Ferry schedules
Other

97. What is the geographic coverage of the information provided?
Regional. Describe
Statewide
Multi-state. States included: _______________________

98. What is the highway coverage of the information provided?
Freeways
Description of freeways included: _______________________
Multi-lane (not limited access)
State routes
Other routes
Other

99. Who is the intended audience for the information provided?
General Public
Commuters (AM/PM rush hour)
Law Enforcement
Emergency Response
Commercial Vehicles
Other public agencies
Other
100. What technologies are used to disseminate information and who is the Information Service Provider (e.g., Traveler Information Radio Network, Kansas DOT) for each technology?

<table>
<thead>
<tr>
<th>Media Type</th>
<th>Used/Not Used</th>
<th>Information Service Provider</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highway advisory radio</td>
<td></td>
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<tr>
<td>Automated telephone (non-511)</td>
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<td>Staffed telephone (non-511)</td>
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<td>Automated telephone (511)</td>
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<tr>
<td>Staffed telephone (511)</td>
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<tr>
<td>Cellular telephone</td>
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<tr>
<td>Statewide conditions reporting system (i.e., HCRS, CARS, etc.)</td>
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<tr>
<td>Dynamic message signs with information about services - static</td>
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<tr>
<td>Dynamic message signs with information about services - mobile</td>
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<td>In-vehicle devices</td>
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<td>Email</td>
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<td>Personal digital assistants</td>
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<td>Internet - (URL: ______________________________________________________)</td>
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<td>Interactive kiosks</td>
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<td>Television Broadcast - Dedicated TV channel</td>
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<td>Television Broadcast - Media</td>
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<td>Fax</td>
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<tr>
<td>Other</td>
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</tbody>
</table>

101. Does the system include planned or operational 511 access?

There are no plans to implement 511 at this time

Yes

If yes, please answer the following questions about your 511 system

**Status**
- Operational
- Planned, Deployment date:

**Coverage**
- Miles of freeway coverage:
- Miles of non-freeway coverage:
- Geographic coverage (all or part of state)?

**Content**
- Basic service provided free of charge
- Traveler and tourist information
- Roadway information
- Public transportation
- Optional content (premium service) for specific users provided for a fee
- Describe optional content:

**Does the system incorporate a voice recognition?**
- Yes
- No

**Is the system multi-lingual?**
- Yes
  - Languages included: ____________________________________________
- No

**Operating hours**
- 24 hours
- Other
102. **What are the sources of data?**

Public safety (incident information)
- State Police
- Local agencies DOT

DOT Traffic management
- Operations and maintenance
  - Work zones
  - Construction areas
- Incident management service patrols

Private traveler information
- Cellular phone calls

Information service providers
- Information service providers, please name:
  - News Media
  - National Weather Service
  - Weather sensor data
  - Road surface condition detectors
  - Public transportation
  - Inductive loop detectors
  - CCTV
  - Microwave radar detectors
- Other

103. **Please provide the name of the hardware or software system that provides the following types of information for each of the media types listed.**

<table>
<thead>
<tr>
<th>Media Type</th>
<th>Construction-Work Zones</th>
<th>Congestion</th>
<th>Special Events</th>
<th>Weather</th>
<th>Traveler-Tourist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highway advisory radio</td>
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<tr>
<td>Automated telephone (non-511)</td>
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<td>Automated telephone (511)</td>
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<td>Cellular telephone</td>
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<tr>
<td>Dynamic message signs with information about services - static</td>
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<td>Dynamic message signs with information about services - mobile</td>
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<td>In-vehicle devices</td>
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<td>Other</td>
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</table>
104. Message Set System Name:

___________________________________________________________________________________________

105. How are message sets developed?

<table>
<thead>
<tr>
<th>Media Type</th>
<th>Data Dictionary</th>
<th>Local Policy</th>
<th>Ad-Hoc</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highway advisory radio</td>
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<td>Automated telephone (non-511)</td>
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<td>Cellular telephone</td>
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<tr>
<td>Dynamic message signs with information about services - static</td>
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<td>Dynamic message signs with information about services - mobile</td>
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<td>In-vehicle devices</td>
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<td>Other</td>
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</tbody>
</table>

106. What is the process for selecting message sets for dissemination? (1=Manual;2=Semi-Automatic;3=Fully Automated;4=None)

- Highway advisory radio
- Automated telephone (non-511)
- Staffed telephone (non-511)
- Automated telephone (511)
- Cellular telephone
- Dynamic message signs with information about services - static
- Dynamic message signs with information about services - mobile
- In-vehicle devices
- Email
- Personal digital assistants
- Internet
- Interactive kiosks
- Television Broadcast - Dedicated TV channel
- Television Broadcast - Media
- Fax
- Other
107. How are message sets approved for dissemination?

<table>
<thead>
<tr>
<th>Media Type</th>
<th>Supervisor Approved</th>
<th>Operator Approved</th>
<th>Automated selection No Approval Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highway advisory radio</td>
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<td>Automated telephone (non-511)</td>
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<td>Personal digital assistants</td>
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<td>Internet</td>
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<td>Interactive kiosks</td>
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<td>Television Broadcast - Dedicated TV channel</td>
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<td>Television Broadcast - Media</td>
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<td>Other</td>
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Surface Transportation Weather System

108. Surface Transportation Weather System Name:
___________________________________________________________________________________________

109. What is the current system status?
    Currently deployed
    Planned
    Planned deployment date:______________________________

110. What statewide systems provide data?
    State DOT environmental sensor stations
    Agricultural monitoring networks
    Air pollution sensing stations
    Airport monitoring stations
    Environmental sensor stations
    Probe vehicles
        Instrumented maintenance vehicles
        Dedicated vehicles (e.g., snow monitors)
    Other
111. What national sources of data are used?
   National Weather Service
   Department of Defense
   Federal Aviation Administration
   Other

112. With what other states do you coordinate to gather data?


113. How many environmental sensor stations (RWIS sites) have been deployed?


114. Is a map available with statewide environmental sensor station deployment information?
   Yes
   Please provide reference where it can be obtained.
   No

115. What are the data collection capabilities of the environmental sensor stations?
   Air temperature
   Wind direction and speed
   Precipitation
   Cloud coverage
   Pavement dew point
   Pavement freezing point
   Pavement snow depth
   Pavement surface temperature
   Pavement subsurface temperature
   Pavement condition (wet, dry, freezing, frozen)
   Pavement chemical concentration
   Flooding
   Other

116. What is the coverage of environmental sensor stations?
   Total freeway miles:_____________________
   Total non-freeway miles:__________________
117. Do you have any road sections specially designated as impacted by weather hazards?
   No
   Yes
   What type of weather hazard is involved?
   Snow
   Sand or Dust
   High winds
   Other

118. Do you have dedicated weather information dissemination systems (as opposed to providing weather information to a general traveler information system)?
   Highway advisory radio
   Automated telephone (non-511)
   Staffed telephone (non-511)
   Dynamic message signs
   Email
   Personal communication devices
   HAR
   Internet
   URL: ___________________________
   Kiosks
   Dedicated TV channel
   Fax
   Other

119. What services or agencies are provided with tailored weather products?
   Traffic management centers
   Traveler information systems
   Public safety
   Maintenance crews
   Highway patrol
   Transit operators
   Commercial vehicle operators
   School management
   Other