

**Canada's Core Public  
Infrastructure Survey, 2016**

**Bridge and Tunnel Assets**

C1A00001

☐ This organization does not own or lease this asset.

**CONFIDENTIAL once completed.**

Si vous préférez recevoir ce document en français,  
veuillez nous appeler au numéro sans frais suivant :

**This information is collected under the authority of the *Statistics Act*, Revised Statutes of Canada, 1985, Chapter S-19.**

**COMPLETION OF THIS QUESTIONNAIRE IS A LEGAL REQUIREMENT UNDER THIS ACT.**

**The purpose of this survey**

Statistics Canada is undertaking this survey to provide useful statistical information on the stock, condition, performance and asset management strategies of Canada's core public infrastructure assets owned or leased by the various levels of government and Indigenous entities.

The information compiled by this survey will be used by analysts and policy-makers to better understand the current condition of Canada's core infrastructure. This will enable all levels of government to develop policies to support the efforts in improving Canada's core public infrastructure and help monitor and report progress on achievement of desired outcomes. Your information may also be used by Statistics Canada for other statistical and research purposes.

**Confidentiality**

Statistics Canada is prohibited by law from releasing any information it collects which could identify any person, business, or organization, unless consent has been given by the respondent or as permitted by the *Statistics Act*. Statistics Canada will use the information from this survey for statistical purposes.

**Data-sharing agreements**

To reduce respondent burden, Statistics Canada has entered into data-sharing agreements with provincial and territorial statistical agencies and other government organizations, which have agreed to keep the data confidential and use them only for statistical purposes. Statistics Canada will only share data from this survey with those organizations that have demonstrated a requirement to use the data.

**Section 11** of the *Statistics Act* provides for the sharing of information with provincial and territorial statistical agencies that meet certain conditions. These agencies must have the legislative authority to collect the same information, on a mandatory basis, and the legislation must provide substantially the same provisions for confidentiality and penalties for disclosure of confidential information as the *Statistics Act*. Because these agencies have the legal authority to compel businesses to provide the same information, consent is not requested and businesses may not object to the sharing of the data.

For this survey, there are **Section 11** agreements with the provincial and territorial statistical agencies of Newfoundland and Labrador, Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, Alberta, British Columbia and the Yukon. The shared data will be limited to information pertaining to business establishments located within the jurisdiction of the respective province or territory.

**Section 12** of the *Statistics Act* provides for the sharing of information with federal, provincial or territorial government organizations. Under **Section 12**, you may refuse to share your information with any of these organizations by writing a letter of objection to the Chief Statistician and returning it with the completed questionnaire. Please specify the organizations with which you do not want to share your data.

For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, Northwest Territories and Nunavut, as well as with Infrastructure Canada.

For agreements with provincial and territorial government organizations, the shared data will be limited to information pertaining to business establishments located within the jurisdiction of the respective province or territory.

**Record linkages**

To enhance the data from this survey, Statistics Canada may combine it with information from other surveys or from administrative sources.

**Further Information**

If you require assistance regarding this survey, please contact Statistics Canada by telephone at

Statistics Canada advises you that there could be a risk of disclosure during facsimile or e-mail. However, upon receipt, Statistics Canada will provide the guaranteed level of protection afforded to all information collected under the authority of the *Statistics Act*.

**Who should complete this questionnaire?**

Canada's Core Public Infrastructure Survey should be coordinated by the organization's asset manager who will ensure that each asset specific questionnaire is completed by its respective manager.

**Please return the questionnaire within 21 days.**

**Please mail the completed questionnaire in the enclosed envelope or fax it to Statistics Canada at 1-888-883-7999.**

If you are unable to complete within 21 days **OR** if you need help, call us at

Statistics Canada, Operations and Integration Division, 150 Tunney's Pasture Driveway, Ottawa, Ontario K1A 0T6

**Visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca)**

## Reporting instructions

- Please print in ink.
- Please report for reference year 2016.
- **Report** dollar amounts in **Canadian dollars**.
- **Exclude** sales tax.
- Percentages should be rounded to whole numbers.
- When precise figures are not available, please provide your best estimates.

## Information for Survey Participants

**Canada's core public infrastructure** can vary within each municipality in Canada as a result of size of population, geographic location and overall economic condition. Canada's core public infrastructure survey will be measuring the following key components within the municipality: asset ownership; asset management planning; overall condition of core public asset infrastructure and overall performance of these core public assets.

**Organization** refers to municipal, regional, provincial, federal government or Indigenous entities (such as a Band council) who own a core public infrastructure.

**Own** refers to assets owned by your organization as well as assets leased by your organization through a capital lease agreement.

## Asset ownership

**Bridge and tunnel assets** include the following:

**Bridges** include highway and expressway bridges, arterial bridges, collector bridges, local bridges and footbridges owned by your organization. **Include** grade separation. **Exclude** bridges in parks and transit exclusive bridges.

**Culverts** include crossings with diameter greater than or equal to 3 metres owned by your organization.

**Tunnels** include all tunnels owned by your organization. **Exclude** tunnels in parks and transit exclusive tunnels.

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## Inventory and physical assessment of bridge and tunnel assets

### 1. What was your organization's final inventory count of bridge and tunnel assets as of December 31, 2016?

If you do not own an asset listed below, please check **Does not apply**.

	Count	Does not apply
<b>Bridge and tunnel assets</b>		
<b>Bridges</b>		
Highway / expressways	C1B01101 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	C1B01201 <input type="checkbox"/>
Arterials	C1B01102 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	C1B01202 <input type="checkbox"/>
Collector	C1B01103 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	C1B01203 <input type="checkbox"/>
Local	C1B01104 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	C1B01204 <input type="checkbox"/>
Footbridges	C1B01105 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	C1B01205 <input type="checkbox"/>
<b>Culverts</b> (diameter greater than or equal to 3 metres)	C1B01106 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	C1B01206 <input type="checkbox"/>
<b>Tunnels</b>	C1B01107 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	C1B01207 <input type="checkbox"/>

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**2. As of December 31, 2016, indicate the count distribution of your organization's bridge and tunnel assets inventory based on the year of completed construction.**

Each selected asset in question 1 should have a count distribution below.

	Year of completed construction													
	2016	2010 to 2015	2000 to 2009	1970 to 1999	1940 to 1969	Prior to 1940	Do not know							
	Count													
<b>Bridge and tunnel assets</b>														
<b>Bridges</b>														
Highway / expressways	C1C02101	C1C02201	C1C02301	C1C02401	C1C02501	C1C02601	C1C02701							
Arterials	C1C02102	C1C02202	C1C02302	C1C02402	C1C02502	C1C02602	C1C02702							
Collector	C1C02103	C1C02203	C1C02303	C1C02403	C1C02503	C1C02603	C1C02703							
Local	C1C02104	C1C02204	C1C02304	C1C02404	C1C02504	C1C02604	C1C02704							
Footbridges	C1C02105	C1C02205	C1C02305	C1C02405	C1C02505	C1C02605	C1C02705							
<b>Culverts</b> (diameter greater than or equal to 3 metres)	C1C02106	C1C02206	C1C02306	C1C02406	C1C02506	C1C02606	C1C02706							
<b>Tunnels</b>	C1C02107	C1C02207	C1C02307	C1C02407	C1C02507	C1C02607	C1C02707							

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### 3. What is the condition assessment cycle for your bridge and tunnel assets?

**Condition assessment cycle:** The period of time required to assess all the assets of a particular type owned by the organization as well as all of the assets of a particular type leased by the organization through a capital lease agreement.

Please select one condition assessment cycle per asset.

			Condition assessment cycle						
			1 year	2 years	3 to 5 years	5 to 10 years	More than 10 years	Does not apply	Do not know
<b>Bridge and tunnel assets</b>									
<b>Bridges</b>									
Highway / expressways	C1D03101	01	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Arterials	C1D03102	01	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collector	C1D03103	01	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Local	C1D03104	01	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Footbridges	C1D03105	01	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Culverts</b> (diameter greater than or equal to 3 metres)	C1D03106	01	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Tunnels</b>	C1D03107	01	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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**4. Please indicate the assessment tool used to complete the physical condition assessment of your organization's bridge and tunnel assets in 2016.**

Check all that apply for each bridge and tunnel asset owned by your organization.

Each selected asset for question 1 should have a physical condition assessment below.

	1. Based on detailed inspection and analysis, guidelines or procedures	2. Based on municipal representative working experience with asset	3. Using proxy information such as age of material, soil environment, estimated service life	4. Do not know
<b>Bridge and tunnel assets</b>				
<b>Bridges</b>				
Highway / expressways	C1E04101 <input type="checkbox"/>	C1E04201 <input type="checkbox"/>	C1E04301 <input type="checkbox"/>	C1E04401 <input type="checkbox"/>
Arterials	C1E04102 <input type="checkbox"/>	C1E04202 <input type="checkbox"/>	C1E04302 <input type="checkbox"/>	C1E04402 <input type="checkbox"/>
Collector	C1E04103 <input type="checkbox"/>	C1E04203 <input type="checkbox"/>	C1E04303 <input type="checkbox"/>	C1E04403 <input type="checkbox"/>
Local	C1E04104 <input type="checkbox"/>	C1E04204 <input type="checkbox"/>	C1E04304 <input type="checkbox"/>	C1E04404 <input type="checkbox"/>
Footbridges	C1E04105 <input type="checkbox"/>	C1E04205 <input type="checkbox"/>	C1E04305 <input type="checkbox"/>	C1E04405 <input type="checkbox"/>
<b>Culverts</b> (diameter greater than or equal to 3 metres)	C1E04106 <input type="checkbox"/>	C1E04206 <input type="checkbox"/>	C1E04306 <input type="checkbox"/>	C1E04406 <input type="checkbox"/>
<b>Tunnels</b>	C1E04107 <input type="checkbox"/>	C1E04207 <input type="checkbox"/>	C1E04307 <input type="checkbox"/>	C1E04407 <input type="checkbox"/>

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**5. In 2016, what was the overall physical condition of your organization's bridge and tunnel assets?**  
**Please indicate the percent distribution of your bridge and tunnel assets by using the following condition rating scale.**

**Very poor:** The asset is unfit for sustained service. Near or beyond expected service life, widespread signs of advanced deterioration, some assets may be unusable.

**Poor:** Increasing potential of affecting service. The asset is approaching end of service life; condition below standard and a large portion of system exhibits significant deterioration.

**Fair:** The asset requires attention. The assets show signs of deterioration and some elements exhibit deficiencies.

**Good:** The asset is adequate. Acceptable, generally within mid stage of expected service life.

**Very good:** Asset is fit for the future. Well maintained, good condition, new or recently rehabilitated.

Each selected asset for question 1 should have a percent distribution below.

Each reporting asset must total to 100%.

	Very poor	Poor	Fair	Good	Very good	Do not know	Total
	%						
<b>Bridge and tunnel assets</b>							
<b>Bridges</b>							
Highway / expressways	C1F05101 [ ][ ][ ]	C1F05201 [ ][ ][ ]	C1F05301 [ ][ ][ ]	C1F05401 [ ][ ][ ]	C1F05501 [ ][ ][ ]	C1F05601 [ ][ ][ ]	100%
Arterials	C1F05102 [ ][ ][ ]	C1F05202 [ ][ ][ ]	C1F05302 [ ][ ][ ]	C1F05402 [ ][ ][ ]	C1F05502 [ ][ ][ ]	C1F05602 [ ][ ][ ]	100%
Collector	C1F05103 [ ][ ][ ]	C1F05203 [ ][ ][ ]	C1F05303 [ ][ ][ ]	C1F05403 [ ][ ][ ]	C1F05503 [ ][ ][ ]	C1F05603 [ ][ ][ ]	100%
Local	C1F05104 [ ][ ][ ]	C1F05204 [ ][ ][ ]	C1F05304 [ ][ ][ ]	C1F05404 [ ][ ][ ]	C1F05504 [ ][ ][ ]	C1F05604 [ ][ ][ ]	100%
Footbridges	C1F05105 [ ][ ][ ]	C1F05205 [ ][ ][ ]	C1F05305 [ ][ ][ ]	C1F05405 [ ][ ][ ]	C1F05505 [ ][ ][ ]	C1F05605 [ ][ ][ ]	100%
<b>Culverts</b> (diameter greater than or equal to 3 metres)	C1F05206 [ ][ ][ ]	C1F05206 [ ][ ][ ]	C1F05306 [ ][ ][ ]	C1F05406 [ ][ ][ ]	C1F05506 [ ][ ][ ]	C1F05606 [ ][ ][ ]	100%
<b>Tunnels</b>	C1F05107 [ ][ ][ ]	C1F05207 [ ][ ][ ]	C1F05307 [ ][ ][ ]	C1F05407 [ ][ ][ ]	C1F05507 [ ][ ][ ]	C1F05607 [ ][ ][ ]	100%

## Asset management and performance

### 6. Does your organization have a bridge and tunnel asset management plan?

An **Asset Management Plan** defines how a group of assets is to be managed over a period of time. The asset management plan describes the characteristics and condition of infrastructure assets, the levels of service expected from them, planned actions to ensure the assets are providing the expected level of service, and financing strategies to implement the planned actions.

C1G06101

1 ☐ Yes

3 ☐ No → Please go to question 8.

### 7. How often does your organization update the current bridge and tunnel asset management plan?

Mark one only.

C1G07101

1 ☐ Every year

2 ☐ Every two to four years

3 ☐ Every five years or more

4 ☐ Does not update

5 ☐ Other – please specify

C1G07205

6 ☐ Do not know

→ Please go to question 9

### 8. When does your organization plan on implementing a bridge and tunnel asset management plan?

Mark one only.

C1G08101

1 ☐ In one year

2 ☐ In two to four years

3 ☐ In five years or more

4 ☐ Other – please specify

C1G08204

5 ☐ Do not plan to implement an asset management plan

6 ☐ Do not know



**9. What type of asset management information system does your organization use to manage your bridge and tunnel assets?**

Mark all that apply.

- C1G09101 ☐ Custom asset management software
- C1G09102 ☐ Off-the-shelf asset management software
- C1G09103 ☐ Spreadsheet
- C1G09104 ☐ Paper records
- C1G09105 ☐ Other – please specify  
C1G09205
- C1G09106 ☐ No asset management information system
- C1G09107 ☐ Do not know

**10. Does your organization own any bridges that are currently tolled?**

- C1G10101
- 1 ☐ Yes
- 3 ☐ No

**11. Do you plan on tolling any bridges within the next 5 years?**

- C1G11101
- 1 ☐ Yes
- 3 ☐ No

**12. In 2016, were you required to perform unplanned maintenance on your bridge assets?**

**Unplanned maintenance** are any interruptions that do not fall under scheduled maintenance or planned events that would disrupt service (i.e. marathon, parade, major event). These interruptions include weather related incidences (i.e. flood, snowstorm), security related incidences (i.e. public act of violence, accidents), and maintenance related incidences.

- C1G12101
- 1 ☐ Yes ➔ Please go to question 13
- 3 ☐ No ➔ Please go to question 14

**13. In 2016, how many times was unplanned maintenance on your bridge assets required?**

Mark one only.

- C1G13101
- 1 ☐ 1 to 10
- 2 ☐ 11 to 20
- 3 ☐ 21 to 50
- 4 ☐ Greater than 50
- 5 ☐ Do not know

**14. In 2016, were you required to perform unplanned maintenance on your tunnel assets?**

**Unplanned maintenance** are any interruptions that do not fall under scheduled maintenance or planned events that would disrupt service (i.e. marathon, parade, major event). These interruptions include weather related incidences (i.e. flood, snowstorm), security related incidences (i.e. public act of violence, accidents), and maintenance related incidences.

C1G14101

1 ☐ Yes ➔ Please go to question 15

3 ☐ No ➔ Please go to question 16

**15. In 2016, how many times was unplanned maintenance on your tunnel assets required?**

Mark one only.

C1G15101

1 ☐ 1 to 10

2 ☐ 11 to 20

3 ☐ 21 to 50

4 ☐ Greater than 50

5 ☐ Do not know

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## Assets value and expenses of bridges and tunnels

### 16. What is the 2016 estimated replacement value, required renewal budget, and actual renewal budget of bridges and tunnels assets owned by your organization?

**Estimated replacement value:** the approximate cost at the present time required to replace an asset, including demolition costs.

**Does not include** land costs or overhead such as administration.

**2016 required renewal budget:** the budget required for rehabilitation, reconstruction, or replacement of the assets to bring rating of all assets to a rating of "good" within the 2016 reference year. These include any activities which increase the performance or capacity of existing fixed assets or significantly extend their previously expected service lives.

**2016 actual renewal budget:** the actual funds spent for the rehabilitation, reconstruction a replacement of the assets. These include any activities which increase the performance or capacity of existing fixed assets or significantly extend their previously expected service lives.

**Required renewal budget and actual renewal budget does not include** cost of regular maintenance and repairs. Maintenance and repairs: Ordinary maintenance and repairs of fixed assets are activities that owners or users of fixed assets are obliged to undertake periodically in order to be able to utilise assets over their expected service lives (they are current costs that cannot be avoided if the fixed assets are to continue to be used). Maintenance and repairs do not change the fixed asset or its performance, but simply maintain it in good working order or restore it to its previous condition in the event of a breakdown.

**Each asset should correspond to question 1.**

		2016		
		Estimated replacement value	Required renewal budget	Actual renewal budget
		Thousands of dollars (000's)		
<b>Bridge and tunnel assets</b>				
<b>Bridges</b>				
Highway / expressways	C1H16101	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
Arterials	C1H16102	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
Collector	C1H16103	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
Local	C1H16104	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
Footbridges	C1H16105	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
<b>Culverts</b> (diameter greater than or equal to 3 metres)	C1H16106	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000
<b>Tunnels</b>	C1H16107	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000	\$ <input type="text"/> ,000

**17. In 2016, what was the total value associated with new bridge and tunnel assets owned by your organization?**

**New bridge and tunnel assets** include the value of new construction, acquisition of assets, and the value of donated assets.

	2016
	Thousands of dollars (000's)
<b>Bridge assets</b>	<small>C1H17101</small> \$ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ,000
<b>Tunnel assets</b>	<small>C1H17102</small> \$ <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ,000

**18. In 2016, what was the expected useful life (in years) of new bridge and tunnel assets owned by your organization?**

**New bridge and tunnel assets** include new construction, acquisition of assets, and donated assets.

**Expected useful life** of an asset refers to the service life or the productive life of the asset at the time of its acquisition regardless of their lives reported for income tax purposes

	Expected useful life (in years)
<b>Bridge and tunnel assets</b>	
Highway / expressways	<small>C1H18101</small> <input type="text"/> <input type="text"/> <input type="text"/>
Arterials	<small>C1H18102</small> <input type="text"/> <input type="text"/> <input type="text"/>
Collector	<small>C1H18103</small> <input type="text"/> <input type="text"/> <input type="text"/>
Local	<small>C1H18104</small> <input type="text"/> <input type="text"/> <input type="text"/>
Footbridges	<small>C1H18105</small> <input type="text"/> <input type="text"/> <input type="text"/>
<b>Culverts</b> (diameter greater than or equal to 3 metres)	<small>C1H18106</small> <input type="text"/> <input type="text"/> <input type="text"/>
<b>Tunnels</b>	<small>C1H18107</small> <input type="text"/> <input type="text"/> <input type="text"/>

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## Feedback

Hours Minutes

1. How long did it take to complete this questionnaire?

**Include** the time spent gathering the necessary information. . . . .

2. We invite your comments about this questionnaire.

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**Bridge and tunnel assets** include the following:

**Bridges** include highway and expressway bridges, arterial bridges, collector bridges, local bridges and footbridges owned by your organization. **Include** grade separation. **Exclude** bridges in parks and transit exclusive bridges.

**Culverts** include crossings with diameter greater than or equal to 3 metres owned by your organization.

**Tunnels** include all tunnels owned by your organization. **Exclude** tunnels in parks and transit exclusive tunnels.

**Condition assessment cycle:** The period of time required to assess all the assets of a particular type owned by the organization as well as all of the assets of a particular type leased by the organization through a capital lease agreement.

**Asset Management Plan:** defines how a group of assets is to be managed over a period of time. The asset management plan describes the characteristics and condition of infrastructure assets, the levels of service expected from them, planned actions to ensure the assets are providing the expected level of service, and financing strategies to implement the planned actions.

**Unplanned maintenance** are any interruptions that do not fall under scheduled maintenance or planned events that would disrupt service (i.e. marathon, parade, major event). These interruptions include weather related incidences (i.e. flood, snowstorm), security related incidences (i.e. public act of violence, accidents), and maintenance related incidences.

**Estimated replacement value:** the approximate cost at the present time required to replace an asset, including demolition costs. **Does not include** land costs or overhead such as administration.

**2016 required renewal budget:** the budget required for rehabilitation, reconstruction, or replacement of the assets to bring rating of all assets to a rating of "good" within the 2016 reference year. These include any activities which increase the performance or capacity of existing fixed assets or significantly extend their previously expected service lives.

**Does not include** cost of regular maintenance and repairs.

**2016 actual renewal budget:** the actual funds spent for the rehabilitation, reconstruction a replacement of the assets. These include any activities which increase the performance or capacity of existing fixed assets or significantly extend their previously expected service lives. **Does not include** cost of regular maintenance and repairs.

**Maintenance and repairs:** Ordinary maintenance and repairs of fixed assets are activities that owners or users of fixed assets are obliged to undertake periodically in order to be able to utilise assets over their expected service lives (they are current costs that cannot be avoided if the fixed assets are to continue to be used). Maintenance and repairs do not change the fixed asset or its performance, but simply maintain it in good working order or restore it to its previous condition in the event of a breakdown.

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