



Louisiana's Pontis Implementation

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Louisiana DOTD

LTRC Seminar Series: Bridge Structures
February 21, 2008



Summary:

- Introduction
- Pontis Overview
- Pontis Implementation Status
- Analysis and Results
- Conclusions





Louisiana's Bridge Network

- 13,175 Total Bridges
- 5,261 Bridges Off the State System
- 7,914 Bridges On the State System
 - 112 are Movable Bridges
 - 676 are Structurally Deficient
 - 1,490 are Functionally Obsolete



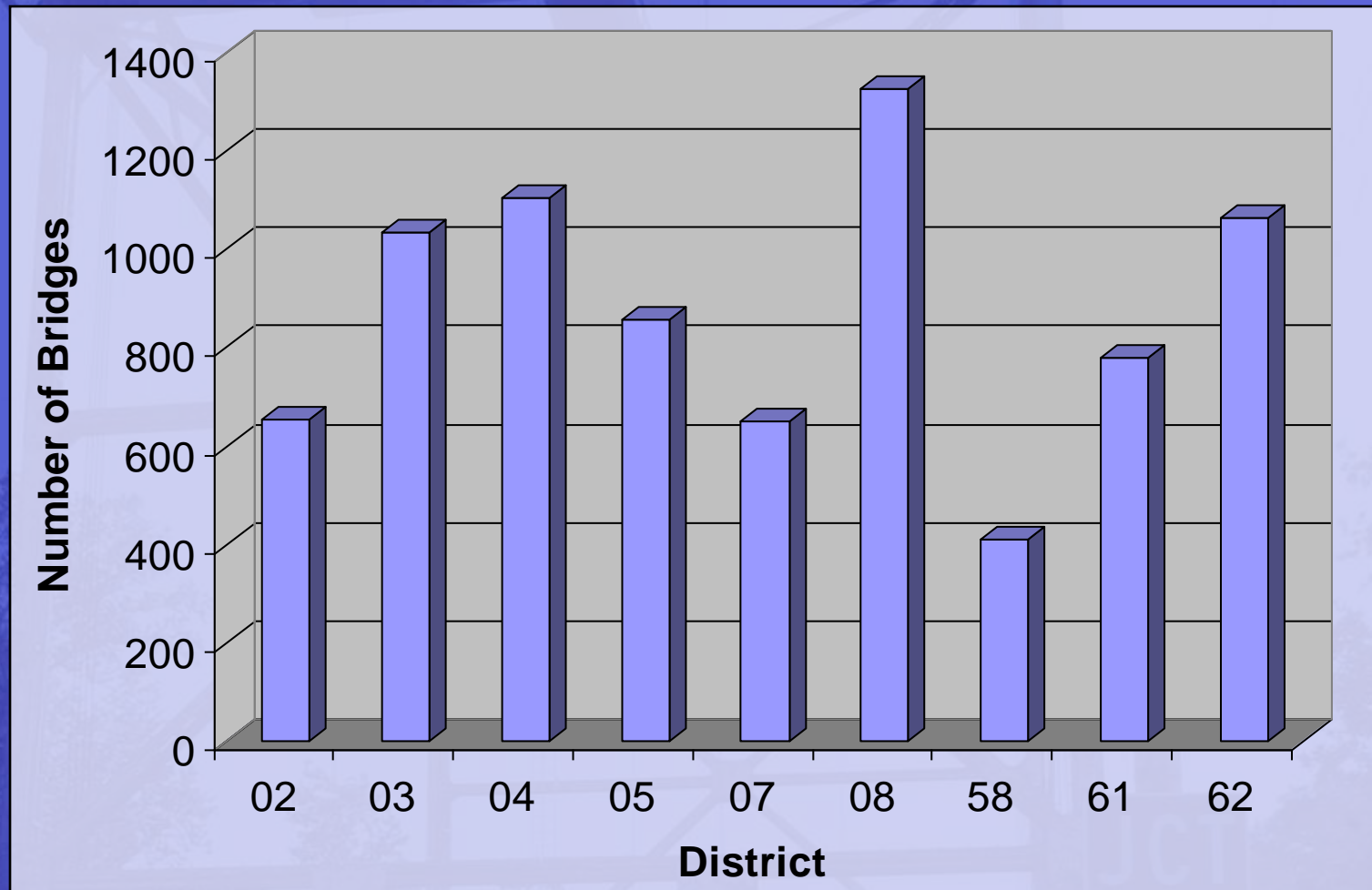


Where were bridges built?

Number of Bridges by District

District

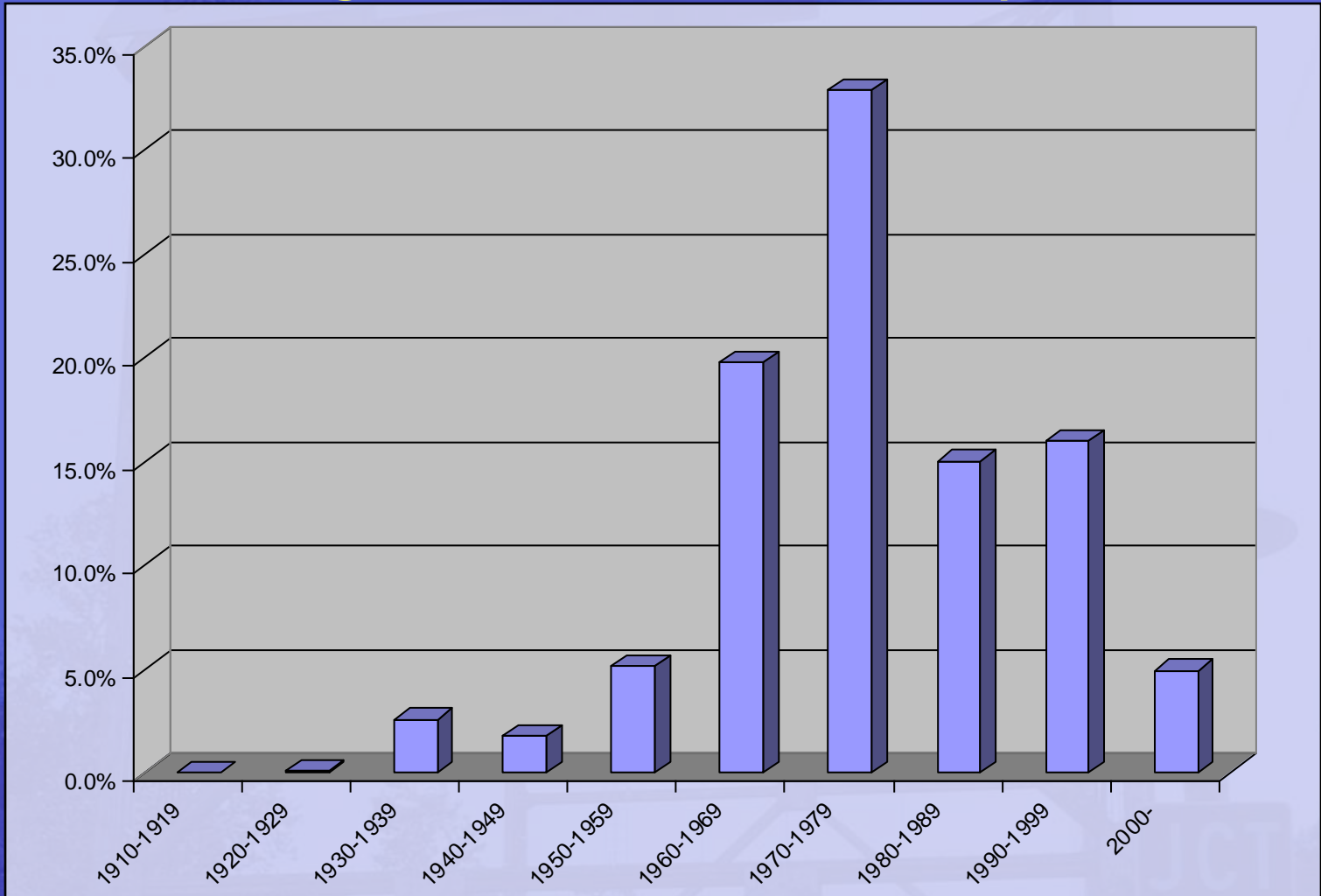
- 02 New Orleans
- 03 Lafayette
- 04 Shreveport
- 05 Monroe
- 07 Lake Charles
- 08 Alexandria
- 61 Baton Rouge
- 62 Hammond





When were bridges built?

Percentage of Deck Area Built by Decade





Pontis Overview

- Bridge Management System Software
- Element Based Inspection
- Element Conditions

Steel Girder/Stringer/Chord/Truss/Floor Beams/Pin and Hanger/Pile Extension/Column-Painted

Element Number	Description
107	Girders-Steel-I-Beam-Plate (Painted) (LF) This element defines only those steel open girder/beam units that are painted. This element includes two girder systems as well as rolled beams or multiple beam spans.
113	Stringers-Steel-Painted (LF) This element defines all painted steel stringers, which support the deck in a stringer-floor beam system.
121	Steel Trusses-Lower Chord (Painted) (LF) This element defines the lower/bottom chord of steel trusses that are painted in through trusses and pony trusses.
126	Steel Trusses-Through Pony-Painted (Excluding Lower Chord) (LF) This element defines all truss elements except the lower/bottom chord of steel trusses that are painted in through trusses and pony trusses.
131	Steel Trusses-Deck Truss-Painted (LF) This element defines all members of painted steel deck trusses.

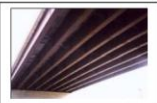
107
113
121
126
131
141
151
161
202
231

December 2003

LADOTD Pocket Manual

Page 37

Notes:



Condition State 1



Condition State 2



Condition State 5



Condition State 3



Condition State 4

December 2003

LADOTD Pocket Manual

Page 24



Pontis Overview

- Recommended Maintenance Actions
- Costs for Maintenance
- Element Deterioration

Pontis 4.4.2 - You are currently logged in as PONTIS

File View Tools Window Help

Desktop - Preservation Models and Optimization

Preservation Element: Girder-St-I Bm-Pnt (107) Env: Low Metric English

Element: Girder-St-I Bm-Pnt (107)	Env: 2	Transition Probabilities to State					Unit Cost (\$)	
		1	2	3	4	5	Direct	Long-Term
State: 1 - No corrosion							Optimal Percent in State: 20.37	
>> 0	Do Nothing	93.30	6.70	0.00	0.00	0.00	0.00	3.20
State: 2 - Paint distress							Optimal Percent in State: 24.44	
>> 0	Do Nothing	0.00	93.30	6.70	0.00	0.00	0.00	5.59
1	Surface clean, spot paint	98.00	2.00	0.00	0.00	0.00	12.49	15.59
State: 3 - Rust formation							Optimal Percent in State: 53.37	
>> 0	Do Nothing	0.00	0.00	96.59	3.41	0.00	0.00	9.75
1	Hand tool, clean, and paint	90.00	5.00	5.00	0.00	0.00	17.99	21.47
State: 4 - Active corrosion							Optimal Percent in State: 1.82	
0	Do Nothing	0.00	0.00	0.00	93.30	6.70	0.00	116.97
>> 1	Hand tool, clean, and paint	75.00	15.00	10.00	0.00	0.00	19.99	24.00
2	Replace paint System	80.00	10.00	10.00	0.00	0.00	164.02	167.92
State: 5 - Section loss							Optimal Percent in State: 0.00	
0	Do Nothing	0.00	0.00	0.00	0.00	93.30	0.00	2,339.44
>> 1	Rehab member	80.00	10.00	5.00	5.00	0.00	1,494.00	1,498.58
2	Replace member	100.00	0.00	0.00	0.00	0.00	1,579.00	1,582.05
Units: (LF)						Agency Failure Cost: 15,790.00		
						User Failure Cost: 0.00		
Long-Term Optimal Unit Cost (\$): 0.36						Probability of Failure from Last State: 6.70		



BMS Project Overview

- Define Louisiana Specific Elements
- Collect Element Inventory
- Develop Element Based Inspection Procedures
- Cost Models
- Deterioration Models
- Initial Inspections for Model Calibration
- Final Implementation



State Crews Collect Inventory

- 4,216 Bridges Inventoried
 - Element Based Inventory
 - Span by Span Method (30,487 Spans)
 - Core Elements Used
 - Inventory Collected with Paper Form

1-10/CALCATED RIVER STEEL GIRDER SPAN (DECK) PAGE 6 OF 11

STR. NO. 2009-91-2767-1 DIST. 07 PARISH 43 INSPECTED BY: ga DATE: 2-15-07

ELEM.	GUARD RAIL						JOINTS										RAIL		COMMENTS		
	APPR. RELIEF JOINT	G.R. APPL. RT.	G.R. APPL. LT.	G.R. END RT.	G.R. END LT.	DECK CONC. OUT - OUT	RIDE SURFACE	STRIP SEAL	POUR	COMP.	CUSH.	MODULAR	OPEN	SLIDE PL.	FINGER	CONC.	MISC.	DECK DRAIN		SPACERS	
SPAN 1	321	901	902	903	904	905	2297	1957	300	301	302	303.1	303.2	304.1	304.2	304.3	331	333	610	620	
2							↓	↓					52					75	2	75	
3													52					75	2	75	
4							2297	1957										75	2	75	
5							2412	2054										79	2	79	
6																					
7																					
8																					
9							2412	2054										79	2	79	
10							2900	2470										95	2	95	
11							4579	3900										150	6	150	
12							2900	2470						52				95	2	95	
13															52						
14																					
15																					
16							2900	2470										95	2	95	
17							2442	2080										80	4	80	
18							3663	3120										120	6	120	
19							3663	3120										120	6	120	
20							3663	3120						52				120	6	120	
21							2442	2080							52			80	4	80	

STACIONS 1 TO 3 / WIDE



Phase I (Setup and Inventory)

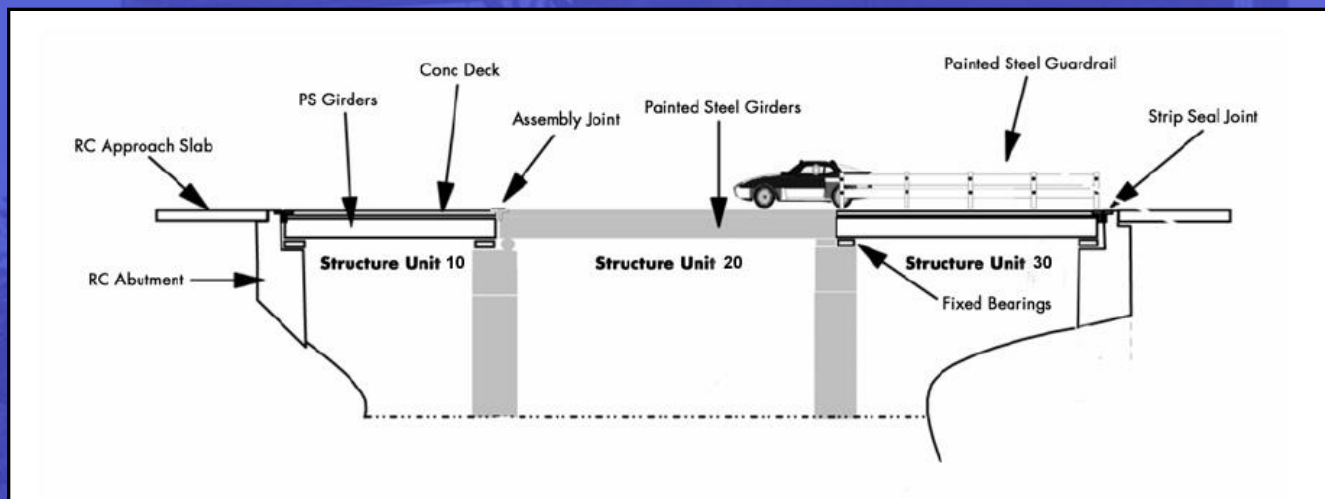
- Identify Louisiana Specific Elements
- Identify Conditions and Actions for Each Element
- Collect Remaining Inventory
 - 3,670 Bridges (52,314 Spans)





Phase I (Setup and Inventory)

- Pontis Data Entry
 - Inventory Changed to Modified Structure Units
 - Data Imported to Pontis db





SECTION 1.3 FIXED BRIDGE COMPONENTS

There are three basic components common to most fixed bridges. These components are the deck, superstructure, and substructure.

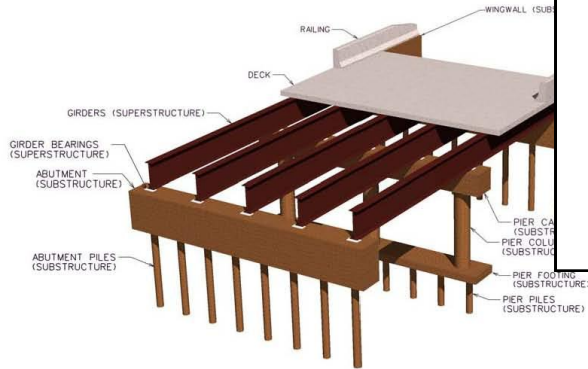


Figure 1.3-1: Bridge Components.

Subsection 1.3.1 Deck

A deck is the bridge component that directly receives the vehicular wheel loads in the case of a roadway, or foot traffic loads in the case of a pedestrian bridge. A deck's purpose on all bridges is to provide a smooth driving or walking surface. On most bridges, it functions to transfer the live loads, superimposed dead loads (overlays, sidewalks, parapets, etc.), and its own weight laterally to the beams/girders/stringers/floorbeams. Sometimes, the deck acts compositely to become part of the beam's top compression flange. On concrete slab bridges, the deck itself is the main load-carrying member, delivering all live and dead loads directly to the substructure units.

Subsection 1.3.2 Superstructure

The superstructure supports the deck and all of the live and dead loads applied to it, delivering these loads to the substructure units. There are three main types of bridge superstructures: beam bridges

Notes:



Condition State 1

December 2003



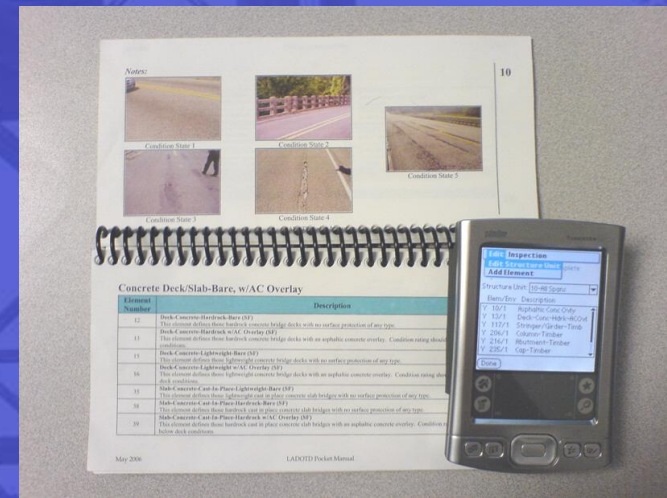
Condition State 2

LADOTD Pocket Manual



Condition State 3

Pontis Handheld Data





Phase II (Training)

- Test Training Procedures
 - Palm Inspection Procedures
 - Louisiana Specific Inspection Parameters
 - Perform Field Inspections
- Train District Inspectors
 - DOTD Inspection Training with 2 Districts
 - Test Implementation Procedures (Phase III Work)
 - Solicit Feedback
 - Final Training for Remaining 7 Districts



Phase III (Inspection and Modeling)

- Collect Inspection Data
 - 400 Bridges Representing Common Structure Types
 - Further Testing for PHDC and Inspection Manuals
 - Provide Feedback on Procedures





Phase III (Inspection and Modeling)

- Elicit Pontis Model Information
 - Element Action Costs
 - Element Deterioration Probability Rates
 - Improvement Costs for Structures
 - Replacement Costs
 - Widening Costs
 - Agency Policy Settings (Legal and Design Standards)
 - Vertical Clearances
 - Lane Widths
 - Setup Agency Rehab and Scoping Rules
- Enter Modeling Data Into Pontis

Girder - Steel - I - Beam/Plate - Painted (LF) PONTIS Element 107

Standard Dimensions:

4' deep, 16" wide flanges

Surface Clean; Spot Paint Top Coat (CS2):

Assumptions:

Work performed by DOTD Maintenance Personnel
4' deep x 3' long section of beam; 12 SF

Item	Quantity	Unit	Item Number	Item Cost	Unit	Cost/LF
Material (MS 285)	12.00	SF		\$0.83	LF	\$3.32
Labor	1.00	MH		\$20.00	LF	\$6.67
Equipment:						
Tools	1.00	LS		\$5.00	LF	\$1.67
Pickup	0.50	HR		\$5.00	LF	\$0.83
Total Cost						\$12.49

Hand Tool; Clean; Paint (CS3, CS4):

Assumptions:

Work performed by DOTD Maintenance Personnel
4' deep x 3' long section of beam; 12 SF

Item	Quantity	Unit	Item Number	Item Cost	Unit	Cost/LF
Material (MS 285)	12.00	SF		\$0.83	LF	\$3.32
Labor	2.00	MH		\$20.00	LF	\$13.33
Equipment:						
Tools	1.00	LS		\$5.00	LF	\$1.67
Pickup	1.00	HR		\$5.00	LF	\$1.67
Total Cost						\$19.99

Condition State	Multiplier	Repair Cost Per LF
CS 3	0.90	\$17.99
CS 4	1.00	\$19.99



Customization

- Inspection Reports
- Forms for DOTD Data and Approval Procedures
- NBI Inspection Data and other DOTD specific information
- Streambed Profile
- Timber Rating Form





Customization

- Bridge Inspection Report
 - NBI and Element Data
 - Bridge and Inspection Notes
 - Inventory and Deficiency Photos
 - Scanned Images
 - Streambed Profile

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
BRIDGE INSPECTION REPORT

BENT INSPECTION DATE: 2/13/2008

WATERWAY MEASUREMENT

Top of Rail _____ to Water Line
At Bent No. 4 , Distance from Begin Bridge 60 ft
Left 0 ft Right 10.5 ft

GROUNDLINE MEASUREMENTS

Bent No.	Distance From Begin Bridge	Top of Rail Left Side	to Ground Line / Mud Line Right Side	Pile Depth
1	.00	.00	5.60	-1
2	20.00	.00	9.60	-1
3	40.00	.00	12.00	-1
4	60.00	.00	13.70	-1
5	80.00	.00	12.00	-1
6	100.00	.00	10.40	-1
7	120.00	.00	5.00	-1



Customization

- Security Parameters for Inspection Approval
- Test Data Transfer Procedures Between District Workstations and Pontis Server

Pontis 4.4.3 - You are currently logged in as PONTIS - [Bridge Inspection Mode: Edit Type: In Depth Key: CGM0]

File View Tools Window Help

Bridge: P2830195915991 Find... Inspections (2): 10/17/2007 Metric English Reports... Save

1 CONDITION 2 NOTES 3 WORK 4 APPRAISAL 5 INVENTORY 6 LADOTD 7 SCHEDULE 8 MEDIA


Context: INSPECTION

Root Directory: \\h51001ms001\

Name	Type	Agency Type	Report Flag	Sort Order	Location
001 Dir of Inventory	JPEG Format	Inspection Photo	<input checked="" type="checkbox"/>		[MULTISERVER]Inspection Docum
002 Opp Dir of Inventory	JPEG Format	Inspection Photo	<input checked="" type="checkbox"/>		[MULTISERVER]Inspection Docum
003 Upstream	JPEG Format	Inspection Photo	<input checked="" type="checkbox"/>		[MULTISERVER]Inspection Docum
004 Downstream	JPEG Format	Inspection Photo	<input checked="" type="checkbox"/>		[MULTISERVER]Inspection Docum
005 Profile	JPEG Format	Inspection Photo	<input checked="" type="checkbox"/>		[MULTISERVER]Inspection Docum

Notes:

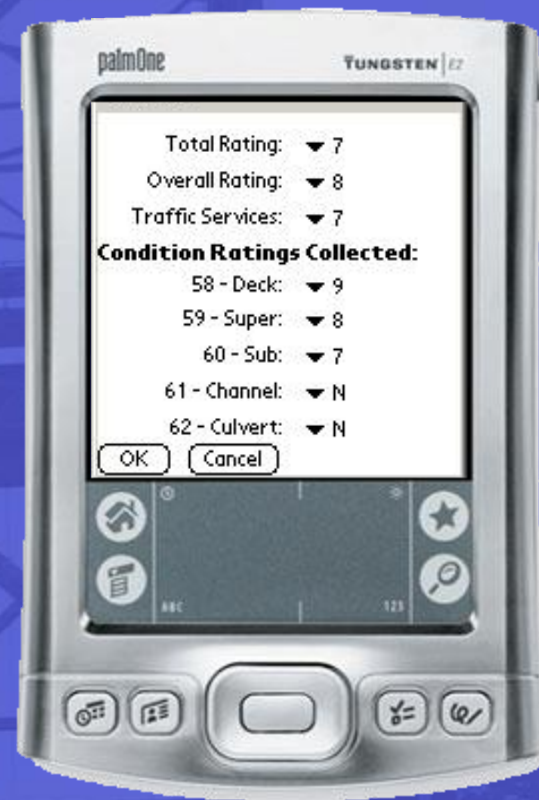
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Customization

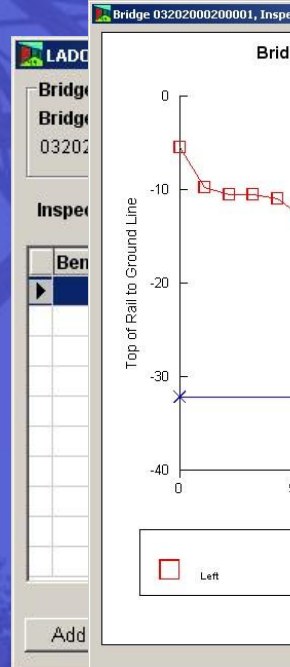
- Dual Inspection – Pontis and NBI
- Waterway Measurements Screen
- Timber Rating Form Screen





Customization

- Streambed Profile
- Tabular Format
- Generate Graph
- Generate Report



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
BENT MEASUREMENT REPORT

DISTRICT	PARISH	ROUTE	STRUCTURE NUMBER	RECALL NUMBER	
Lafayette	Evangeline	LA0104	03202000200001	034080	
CROSSING DESCRIPTION	LENGTH	BRIDGE TYPE	YEAR BUILT	ADT	POSTED LOAD
BAYOU NEZPIQUE	460.00 ft	COSLAB	1971	873	-

Bent Inspection Date: 9/13/2007

WATERWAY MEASUREMENT

Top of Rail to Water Line

At Bent No. 13, Distance from Begin Bridge

Left 32.3 ft Right 0 ft

GROUNDLINE MEASUREMENTS

Top of Rail to Ground Line / Mud Line

Bent No.	Distance From Begin Bridge	Left Side	Right Side	Pile Depth
0	.00	5.50	.00	
1	20.00	9.80	.00	
2	40.00	10.60	.00	
3	60.00	10.60	.00	
4	80.00	11.00	.00	
5	100.00	13.00	.00	
6	120.00	13.80	.00	
7	140.00	13.80	.00	
8	160.00	15.20	.00	
9	180.00	15.80	.00	
10	200.00	19.00	.00	
11	220.00	20.60	.00	
12	240.00	27.20	.00	
13	260.00	32.30	.00	
14	280.00	32.60	.00	
15	300.00	25.80	.00	

Bent Measurement Report Mon 2/18/2008 20:59:11
Page 1 of 2



Customization

- Timber Rating Forms
- Bridge Maintenance Performs Load Rating Calculations for Timber Bridges

LADOTD Timber Applet

**LOUISIANA DOTD
STRUCTURAL RATING OF TIMBER STRINGER SPANS
FIELD DATA AND MEASUREMENT FORM
ON SYSTEM BRIDGE**

RECALL NUMBER	SPAN	STRUCTURE TYPE	DATE OF INSPECTION	TYPE FLOORING	BRIDGE HAS TIMBER SPANS ONLY? (TRUE) OR F(ALSE)	STRUCTURE NUMBER				
						DIST.	PAR.	CONTROL SECTION	LOG MILE	ID
0081101	1	T T T R E S	02 / 15 / 08	S T R I P	F	03	49	38	003	02591

DECK THICKNESS (IN. & HDTHS.)	DECK PLANK WIDTH (IN. & HDTHS.)	WEARING COURSE (IN. & HDTHS.)	ROADWAY WIDTH (FT. & HDTHS.)	SPAN LENGTH (FT. & HDTHS.)	CAP DEPTH (IN. & HDTHS.)	CAP WIDTH (IN. & HDTHS.)	PILE LENGTH (FT. & HDTHS.)	PILE CIRCUM-FERENCE (IN. & HDTHS.)	PILE SHELL THICKNESS (IN. & HDTHS.)
03.75	11.00	02.00	25.00	19.00	11.50	09.50	28.00	32.00	

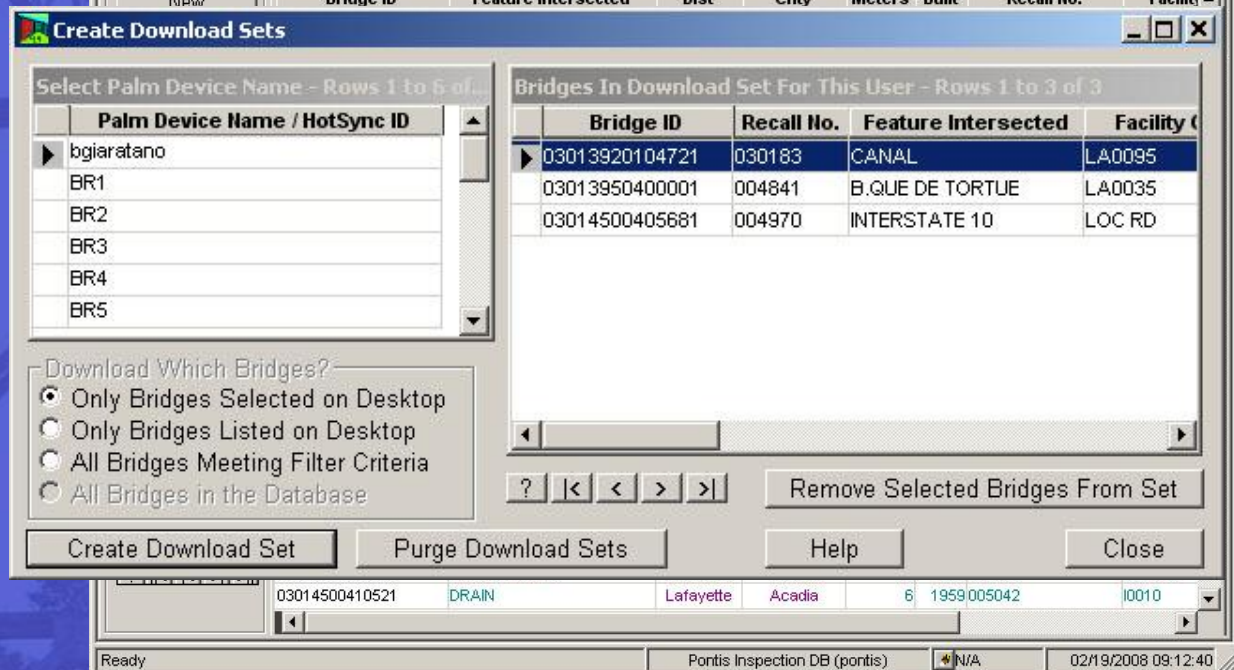
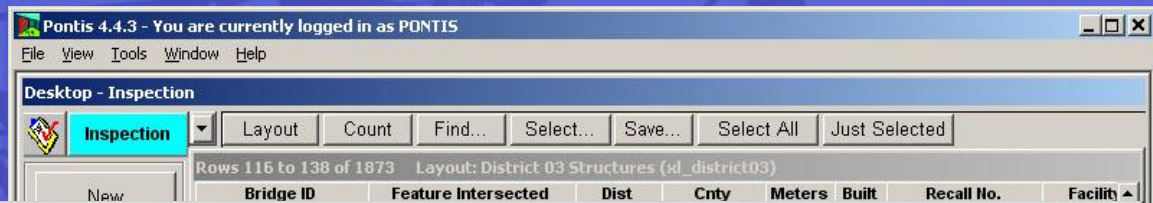
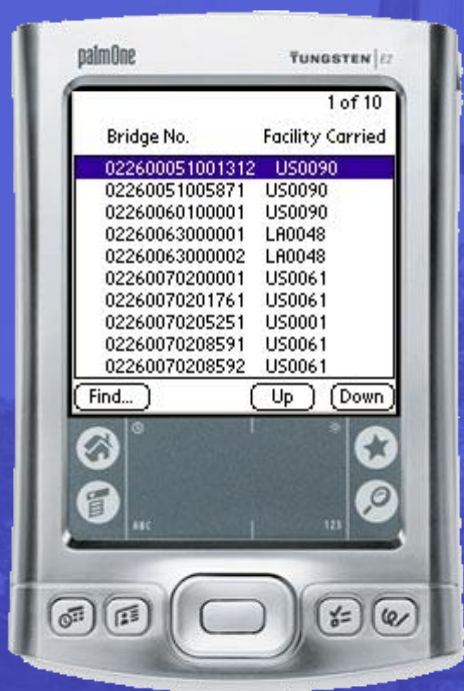
	STRINGER DEPTH (IN. & HDTHS.)	STRINGER THICKNESS (IN. & HDTHS.)	DIST TO NEXT CENT. - CENT (IN. & HDTHS.)	PILE SPACING (FT. & HDTHS.)
1	13.50	05.75	21.50	03.50
2	13.50	06.00	17.00	06.00
3	13.25	06.00	18.00	06.00
4	13.50	06.00	18.00	06.50
5	13.25	06.25	17.00	03.00
6	14.25	06.00	18.00	00.00
7	13.50	06.50	15.25	
8	13.00	06.00	18.00	
9	14.00	05.50	18.00	
10	13.25	05.50	17.50	
11	13.50	05.50	18.00	
12	13.50	05.50	17.00	
13	13.50	05.50	18.00	
14	13.00	05.50	18.00	
15	13.25	05.50	18.00	
16	13.00	06.00	17.00	
17	13.50	06.00	18.00	
18	13.25	06.00	00.00	

Timber Ratings Report Tue 2/19/2008 08:59:37
Page 1 of 2



Data Transfer Process

- Inspectors Connect to Pontis Database
- Identify Bridges for Inspection
- Select on Inspection Desktop
- Create Download Set
- Hot sync to PHDC





Data Transfer Process

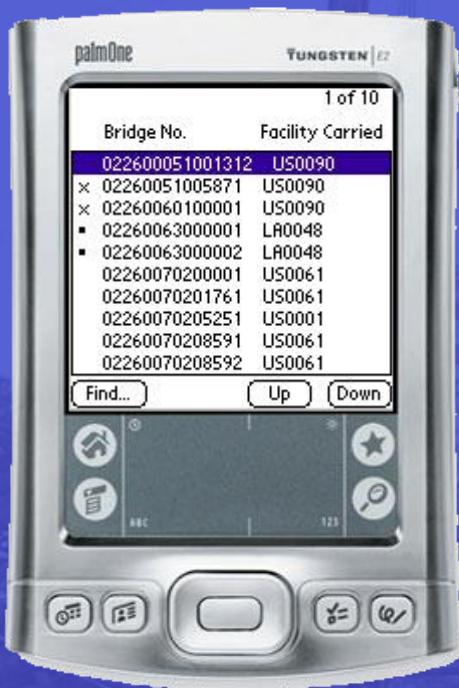
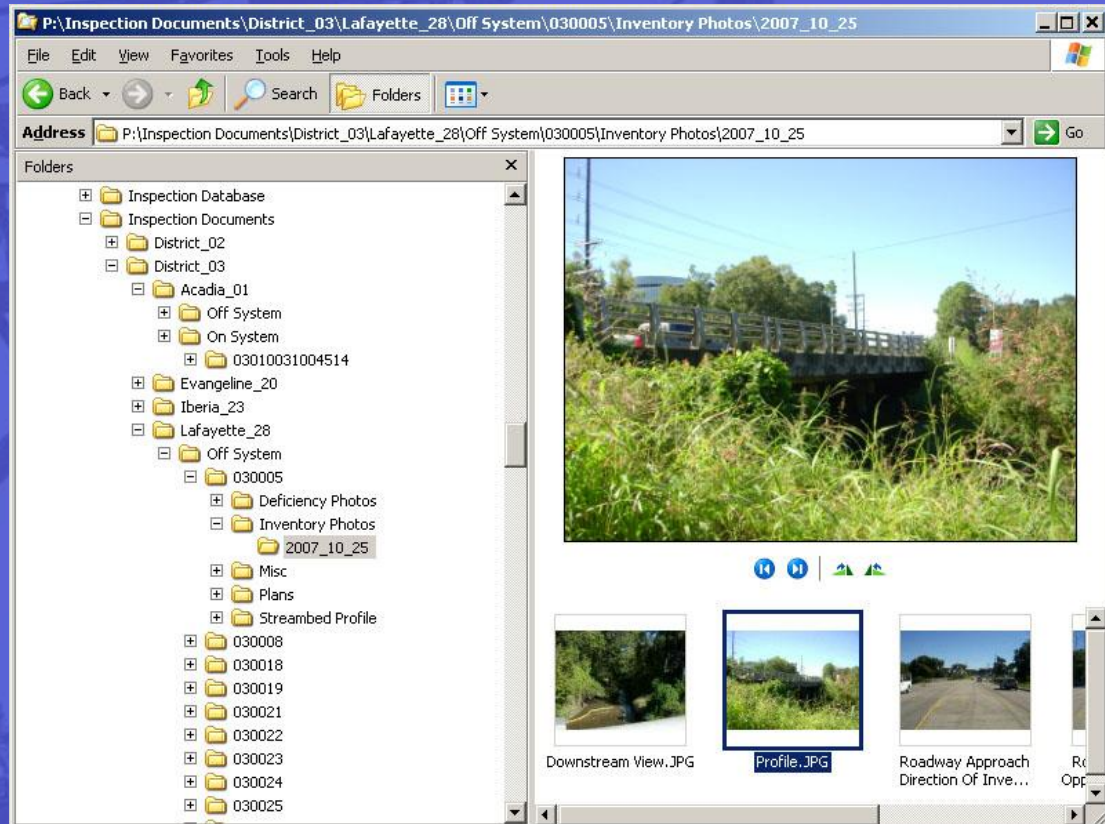
- Inspections are Performed
- Data Entered into PHDC
- Photos Taken
- Inspectors Return to Office





Data Transfer Process

- Completed Inspections Uploaded Through Hot Sync
- Photos Renamed and Transferred from Camera to HQ Server
- Scans Transferred to HQ Server





Data Transfer Process

- Multimedia Files
 - Pictures
 - Scans
 - Word Documents
- Multimedia Auto-Link Application Run Nightly

Pontis 4.4.3 - You are currently logged in as PONTIS - [Bridge Inspection Mode: Edit Type: In Depth Key: CGMO]

File View Tools Window Help

Bridge: P2830195915991 Find... Inspections (2): 10/17/2007 Metric English Reports... Save

1 CONDITION 2 NOTES 3 WORK 4 APPRAISAL 5 INVENTORY 6 LADOTD 7 SCHEDULE 8 MEDIA


Context: INSPECTION

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002 Opp Dir of Inventory	JPEG Format	Inspection Photo	<input checked="" type="checkbox"/>		[MULTISERVER]Inspection Docurr
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004 Downstream	JPEG Format	Inspection Photo	<input checked="" type="checkbox"/>		[MULTISERVER]Inspection Docurr
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	Accessed: 10/28/2007 16:20:28	Open
	Modified: 10/17/2007 06:32:54	
	Size: 1.2 MB	
	Status: AVAILABLE	



Future Tasks

- District Inspectors Collect Full Cycle of Pontis Element Inspections (2 Years)
- Run Pontis Simulations
 - Utilizing all Inspection Data, Cost Information, and Deterioration Models
 - Generate Priority List for Projects
 - Generate MR&R Plan and Forecast Benefits for Optimization of Bridge Funding



Pontis Results

- Future Network Conditions
- Future Bridge Conditions
- Recommended Actions
- Replace or Preserve



Network Needs

Pontis 4.4.3 - You are currently logged in as PONTIS

File View Tools Window Help

Desktop - Network-Level Program Results [00 - Default scenario]

Results

Specifications Report 1

Needs and Projected Work for Scenario: Default scenario Years 2008 - 2032

Year	Cost (\$)		Benefit (\$) from	
	Needs	Programmed Work	Meeting All Needs	Programmed Work
2008	41,353,861	9,999,679	1,320,270,585	794,102,953
2009	31,992,061	9,995,239	604,737,334	321,481,429
2010	22,578,892	9,997,424	302,103,392	198,275,411
2011	13,028,323	9,995,568	111,553,150	100,033,415
2012	3,368,177	3,368,177	15,759,063	15,759,063
2013	7,158,310	7,158,310	245,688,530	245,688,530
2014	5,471,514	5,471,514	364,706,313	364,706,313
2015	4,207,322	4,207,322	175,586,958	175,586,958
2016	1,993,924	1,993,924	54,871,199	54,871,199

Close Help Print About This Report...



Preservation Needs

Pontis 4.4.3 - You are currently logged in as PONTIS

File View Tools Window Help

Desktop - Network-Level Program Results [00 - Default scenario]

Results

Specifications Report 1 Report 2

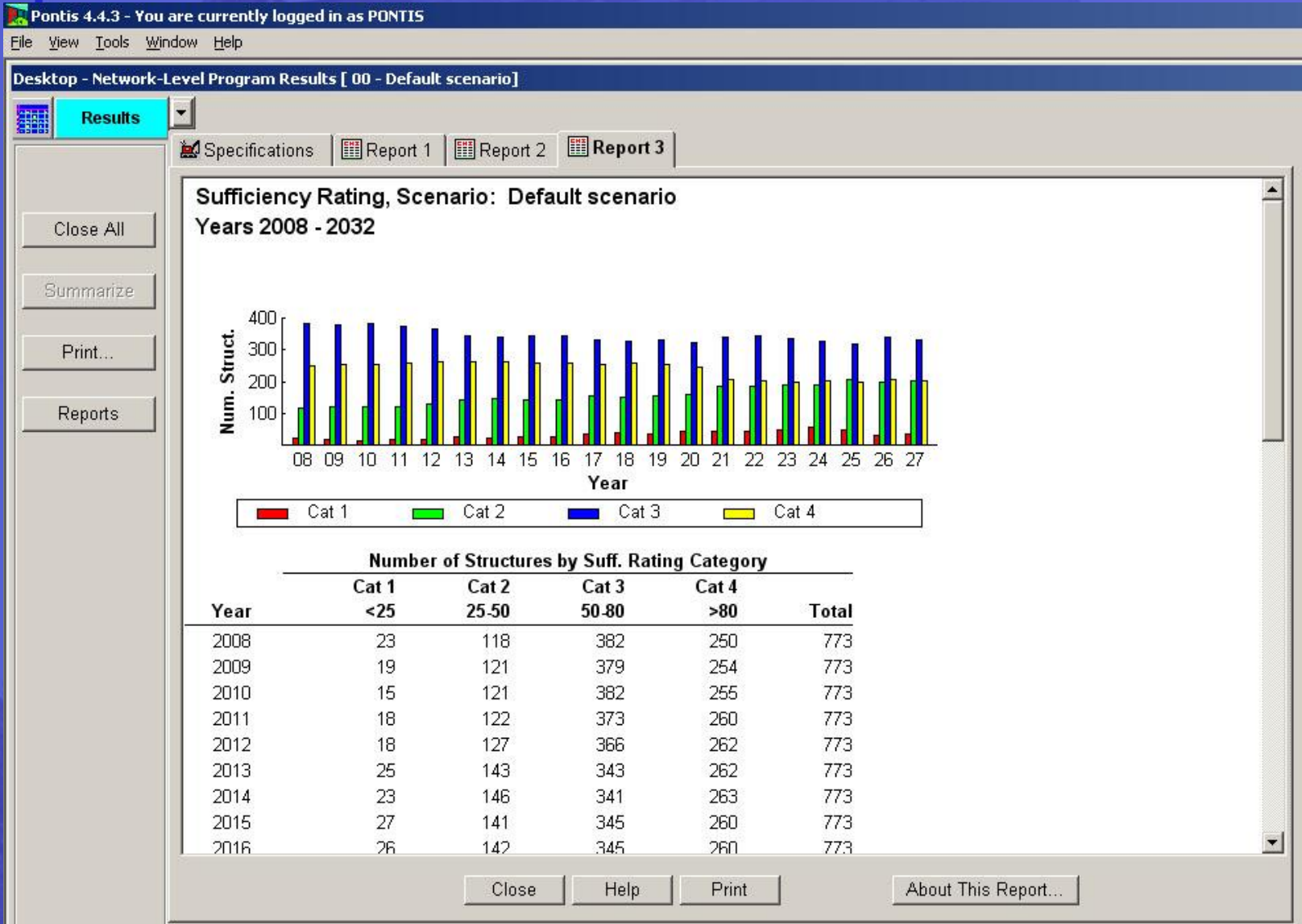
Preservation Needs and Projected Work for Scenario: Default scenario
Years 2008 - 2032

Year	Cost (\$)		Benefit (\$) from	
	Needs*	Programmed Work	Meeting All Needs	Programmed Work
2008	24,383,817	9,091,877	1,005,857,522	762,737,120
2009	15,929,814	3,269,325	314,118,025	135,413,774
2010	13,242,555	7,009,027	194,938,232	135,135,393
2011	6,519,386	6,192,571	66,239,156	64,408,111
2012	402,238	402,238	4,571,508	4,571,508
2013	4,739,197	4,739,197	225,026,397	225,026,397
2014	3,138,463	3,138,463	343,287,234	343,287,234
2015	3,180,325	3,180,325	145,449,713	145,449,713
2016	1,993,933	1,993,933	54,871,190	54,871,190

Close Help Print About This Report...

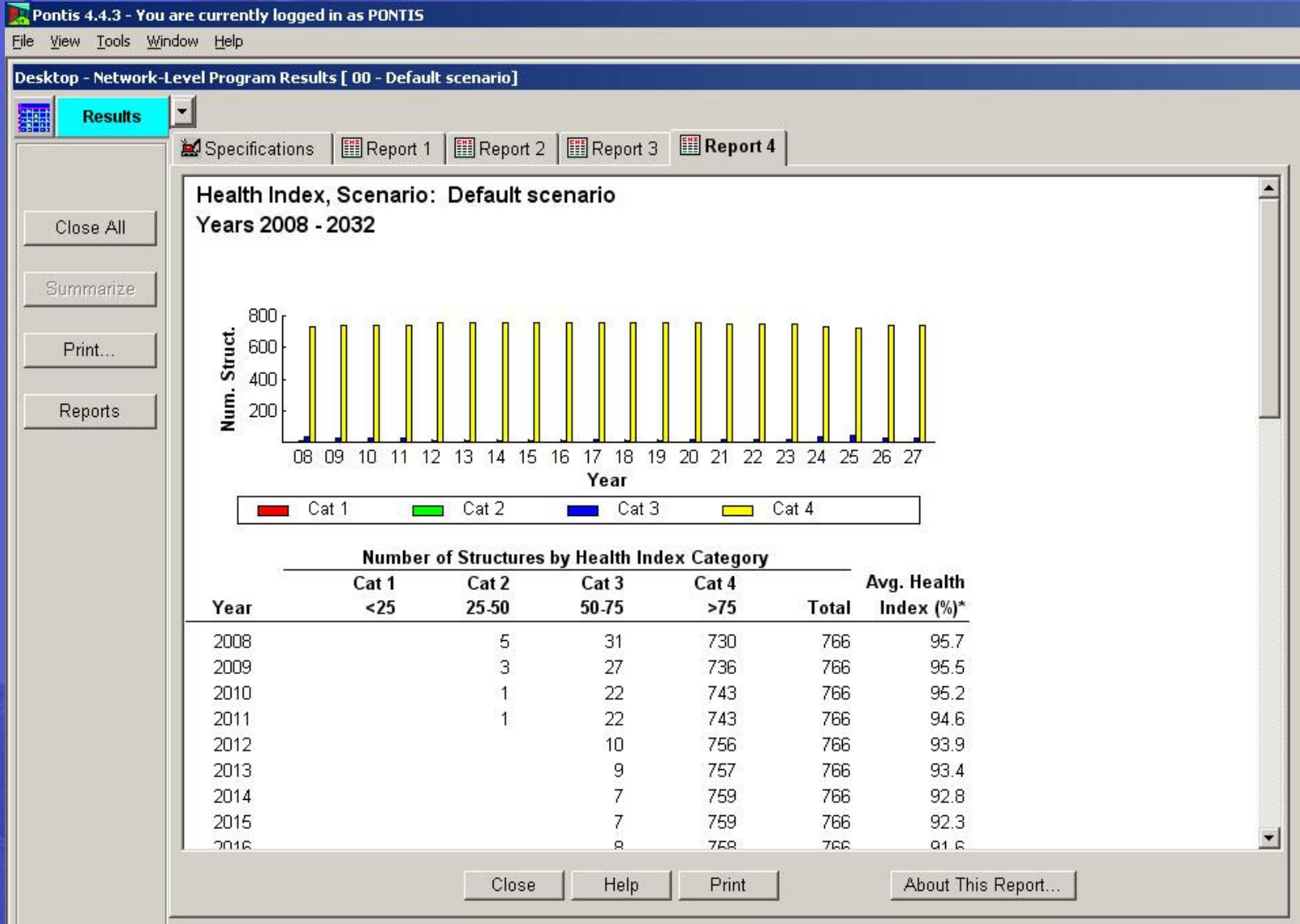


Performance Indicator Sufficiency Rating



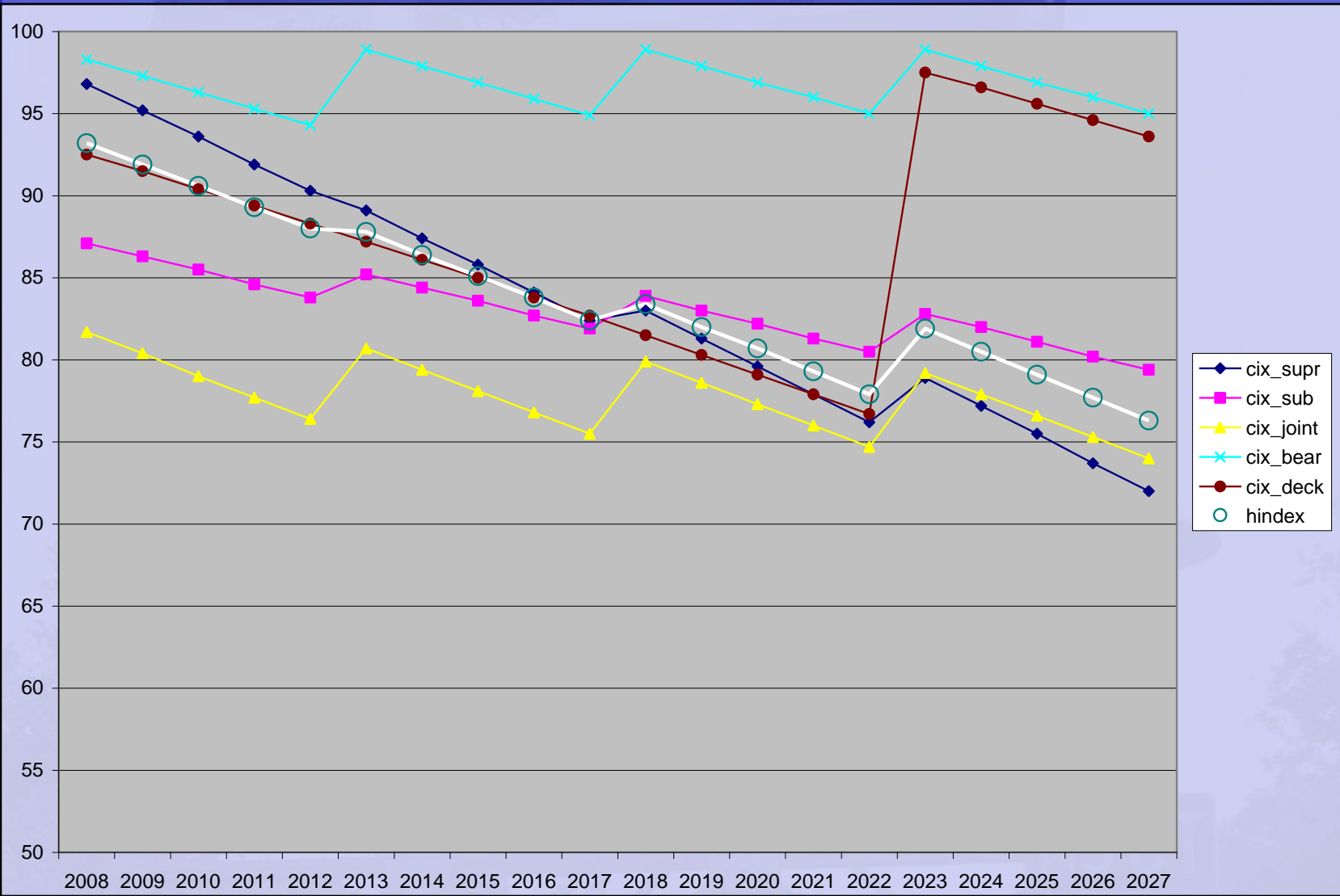


Performance Indicators Health Index





Health Index – One Bridge





Health Index – One Bridge

Louisiana DOTD

Office of Planning and Programming
Bridge Management

Bridge Health Index Detail

Bridge ID:61040050200001

Inspected: 08/15/2007 QBMJ

Elem/Env	Total Quant	% of Quant by State					Unit Value	Total Elem Value	Frac Contribution by State					Cond Index	Curr Elem Value
		1	2	3	4	5			1	2	3	4	5		
12/2	11,375	0	0	100	0	0	2,768	31,487,360	0.00	0.00	0.50	0.00	0.00	50%	15,743,680
107/2	4,456	93	7	0	0	0	51,806	230,855,780	0.93	0.05	0.00	0.00	0.00	98%	226,238,664
202/2	41	20	80	0	0	0	506,250	20,756,250	0.20	0.60	0.00	0.00	0.00	80%	16,605,000
205/2	69	100	0	0	0	0	854,370	58,951,530	1.00	0.00	0.00	0.00	100%	58,951,530	
207/2	4	100	0	0	0	0	2,784,107	11,136,428	1.00	0.00	0.00	0.00	100%	11,136,428	
215/2	27	100	0	0	0	0	59,019	1,601,011	1.00	0.00	0.00	0.00	100%	1,601,011	
231/2	329	0	0	100	0	0	77,709	25,580,441	0.00	0.00	0.50	0.00	0.00	50%	12,790,221
234/2	210	100	0	0	0	0	106,660	22,431,919	1.00	0.00	0.00	0.00	100%	22,431,919	
304/2	608	31	25	44			3,789	2,303,064	0.31	0.13	0.00			44%	1,013,348
305/2	29	0	100	0			5,684	164,588	0.00	0.50	0.00			50%	82,294
306/2	26	19	33	48			29,429	753,480	0.19	0.17	0.00			36%	271,253
311/2	152	61	35	5			25,800	3,921,600	0.61	0.17	0.00			78%	3,058,848
313/2	112	51	37	13			24,510	2,745,120	0.51	0.18	0.00			69%	1,894,133
321/2	2	100	0	0	0	0	120,880	241,760	1.00	0.00	0.00	0.00	100%	241,760	
322/2	17	0	0	100			1,115	19,040	0.00	0.00	0.00			0%	0
331/2	2,204	100	0	0	0	0	8,685	19,139,236	1.00	0.00	0.00	0.00	100%	19,139,236	
333/2	24	100	0	0			1,138	27,744	1.00	0.00	0.00			100%	27,744
580/2	10	100	0	0			0	0	1.00	0.00	0.00			100%	0
585/2	2	0	100	0			0	0	0.00	0.50	0.00			50%	0
Health Index	90.54%						Total Element Value Sum	432,116,350	Current Element Value Sum					391,227,069	



Pontis Priority Listing

Louisiana DOTD

Office of Planning and Programming
Bridge Management

Pontis Work Candidate Priority List

Pontis work candidates grouped by bridge, listed in decreasing order of benefit/cost ratio

Bridge ID	Feature Intersected	Year	Predom. Action	Predom. Object	Cost(\$)	Benefit(\$)	BCR
05370670907131	LA 34 OVER I-20	2008	Min Repair	Bearing-Moveable	8,321	1,049,126	126.08
05310231000582	US 167 OVER I-20	2008	Rehab Elem	Bearing-Fixed	30,624	3,283,890	107.23
62484501304151	MISSISSIPPI BAYOU	2008	Min Repair	Deck Joint-Pour Seal	14,640	476,331	32.54
05373150206901	CROSS BAYOU	2008	Rehab Elem	Relief Joint	5,795	334,794	57.77
08408404304201	KCS R/R FT BUHLOW	2008	Rehab Elem	Bearing-Fixed	37,837	4,431,226	117.11
62598592501431	SILVER CREEK	2008	Rehab Elem	Deck-Timber-AC Ovly	10,277	329,668	32.08
05378371203841	CHENIERE SPILLWAY	2008	Repl Elem	Stringer/Girder-Timb	5,739	210,681	36.71
07274500300772	I-10 OVER US 165 & MP RR	2008	Min Repair	Bearing-Moveable	61,812	2,739,067	44.31
08580240611551	BAYOU ZOUVIE	2008	Rehab Elem	Bearing-Fixed	42,576	6,200,187	145.63
62320130701901	BIG BRANCH	2008	Rehab Elem	Bearing-Fixed	25,493	765,221	30.02
61172540211781	HUBS BAYOU	2008	Min Repair	Deck Joint-Pour Seal	8,535	449,329	52.65
05314510512001	I 20	2008	Min Repair	Bearing-Moveable	9,934	1,564,382	157.48
02550050500721	DRAIN CANAL	2008	Min Repair	Deck Joint-Pour Seal	14,946	517,422	34.62
58211690100231	ASH SLOUGH	2008	Min Repair	Deck Joint-Pour Seal	49,722	1,593,311	32.04
02454503803756	S.P. R.R. & LA 631	2008	Repl Elem	Bearing-Elastomeric	34,165	2,427,935	71.06
02552470106421	ROBINSON CANAL	2008	Rehab Elem	Cap-Conc-Rienf	167,667	5,019,887	29.94
04160350504201	FRIERSON BRANCH	2008	Rehab Elem	Column-Timber	15,426	2,000,529	129.69
62322660300001	BAYOU PIERRE	2008	Min Repair	Bearing-Moveable	23,018	1,314,546	57.11
61172500110621	COPPER MILL BAYOU	2008	Rehab Elem	Relief Joint	11,136	479,697	43.08
62534150201671	NATALBANY RIVER	2008	Rehab Elem	Column-Timber	8,540	678,642	79.47
02264501503821	VET MEM HWY	2008	Min Repair	Deck Joint-Pour Seal	120,537	9,505,132	78.86
03512390202651	IVANHOE CANAL	2008	Min Repair	Deck Joint-Pour Seal	27,608	893,732	32.37
03010570316761	-	2008	Min Repair	Deck Joint-Pour Seal	18,747	1,066,859	56.91
08228221300211	BAYOU RIGGOLETTE	2008	Rehab Elem	Deck-Timber-AC Ovly	12,191	392,916	32.23
08220400303021	BIG CREEK	2008	Min Repair	Slab-P/C-LW-AC Ovl	42,855	3,705,646	86.47
02294070209361	VALENTINE CANAL	2008	Min Repair	Deck Joint-Pour Seal	17,865	1,244,471	69.66
04600270313242	KCS RR MINDEN	2008	Rehab Elem	Bearing-Fixed	13,472	899,685	66.78



Conclusions

- Pontis Implementation Progressing
- Remaining 7 Districts Trained by June, 2008
- Customization
- Analysis
- Reporting





Thank You

