Comprehensive Transit Service Analysis:

Greater Hartford Area

Kick-Off Meeting

September 3, 2014



Agenda

- Introductions
- Public Forum
- Project Overview & AC Responsibilities
- Transit Analysis General Scope
- Transit Data Repository
- tHUB
- Next Meeting
- Adjourn



Introductions

- Name
- Title
- Organization
- Homework: Top 1-2 goals for this study





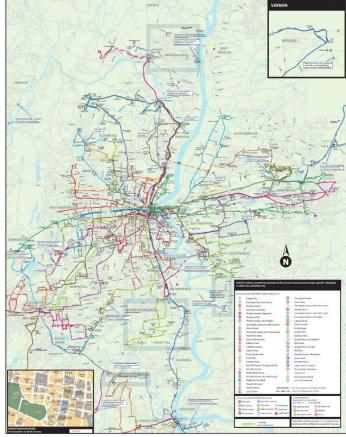
Project Overview

- Study Area
- Why we need this study
- Project Tasks
- Organizational Chart

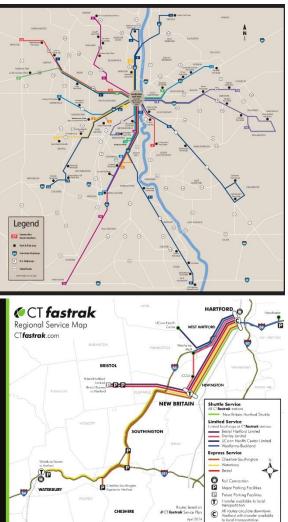


Study Area

CTTransit Hartford Local

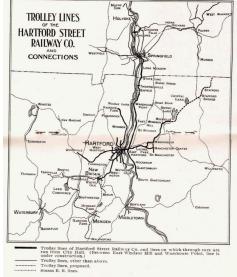


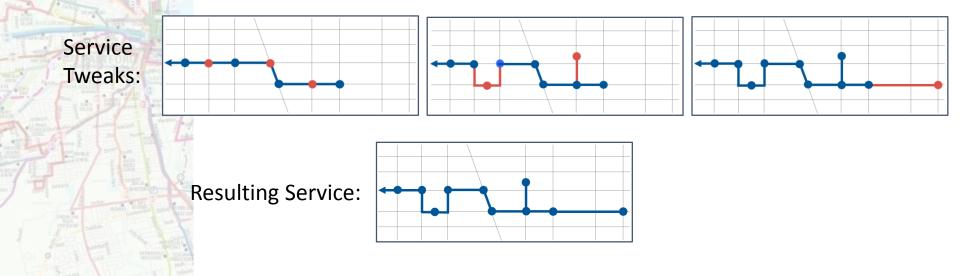
CTTransit Hartford Express



- Based on streetcar routes
- Modifications as needed







 Areas outside downtown Hartford have grown











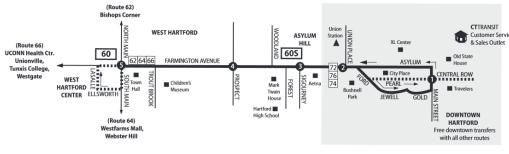




• System can be confusing

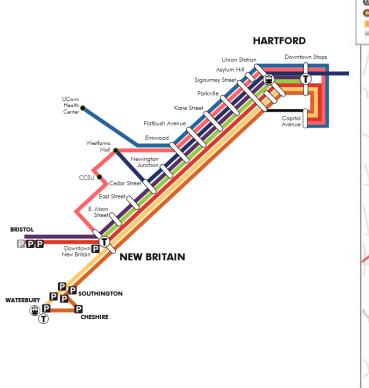
ROUTE KEY

- 60 West Hartford Center62 Bishops Corner
- 64 Webster Hill Boulevard
- 64W Westfarms Mall
- 66 Westgate
- 66F UCONN Health Center-Unionville
- 66H UCONN Health Center
- 66T UCONN Health Center–Unionville–Tunxis College



	Har	tford >	- Farmi	ngton Av	e 🗲 W.	Hartfo	rd Center
Time	epoints	0	2	8	4	6	
		•	•	ev	UT T		
		Downtown Hartford Main at Travelers	Union Station	Asylum Hill Farmington & Sigourney	City Line Farmington & Prospect	West Hartford Center Farmington & Main	Continues
	Route				_		to
	60	5:00	5:05	5:09	5:14	5:19	 Turnula Callorea
	66T	5:35	5:40	5:44	5:49	5:54	Tunxis College Westfarms Mall
	64W 62	5:50 6:05	5:55 6:10	5:59 6:14	6:04 6:19	6:09 6:24	Bishops Corner
	62 66F	6:05		6:14 6:24	6:19	6:24 6:34	Unionville
	64		6:20				
	62	6:25 6:35	6:30 6:40	6:34 6:44	6:39 6:51	6:44 6:58	Webster Hill Bishops Corner
	66T	6:45	6:40	6:44	7:01	7:08	Tunxis College
	62	6:55	7:00	7:04	7:11	7:18	Bishops Corner
	64	7:05	7:10	7:04	7:21	7:18	Webster Hill
	64W	7:15	7:20	7:24	7:31	7:38	Westfarms Mall
	66	7:25	7:30	7:34	7:41	7:48	Westgate
	66T	7:35	7:40	7:44	7:51	7:58	Tunxis College
	62	7:45	7:50	7:54	8:01	8:08	Bishops Corner
rice	64W	7:52	7:57	8:01	8:08	8:15	Westfarms Mall
	66H	8:00	8:05	8:09	8:16	8:23	UConn Health Ctr
	62	8:10	8:15	8:19	8:26	8:33	Bishops Corner
	64W	8:20	8:25	8:29	8:36	8:43	Westfarms Mall
	66T	8:30	8:35	8:39	8:46	8:53	Tunxis College
	62	8:40	8:45	8:49	8:56	9:03	Bishops Corner
	64W	8:50	8:55	8:59	9:06	9:13	Westfarms Mall
	66H	9:00	9:05	9:09	9:16	9:23	UConn Health Ctr
	62	9:10	9:15	9:19	9:26	9:33	Bishops Corner
	64W	9:20	9:25	9:29	9:36	9:43	Westfarms Mall
	66T	9:30	9:35	9:39	9:46	9:53	Tunxis College

 New services to align with NEW HAVEN - HARTFORD - SPRINGFIELD RAIL PROGRAM





• System performance tracking & comparisons

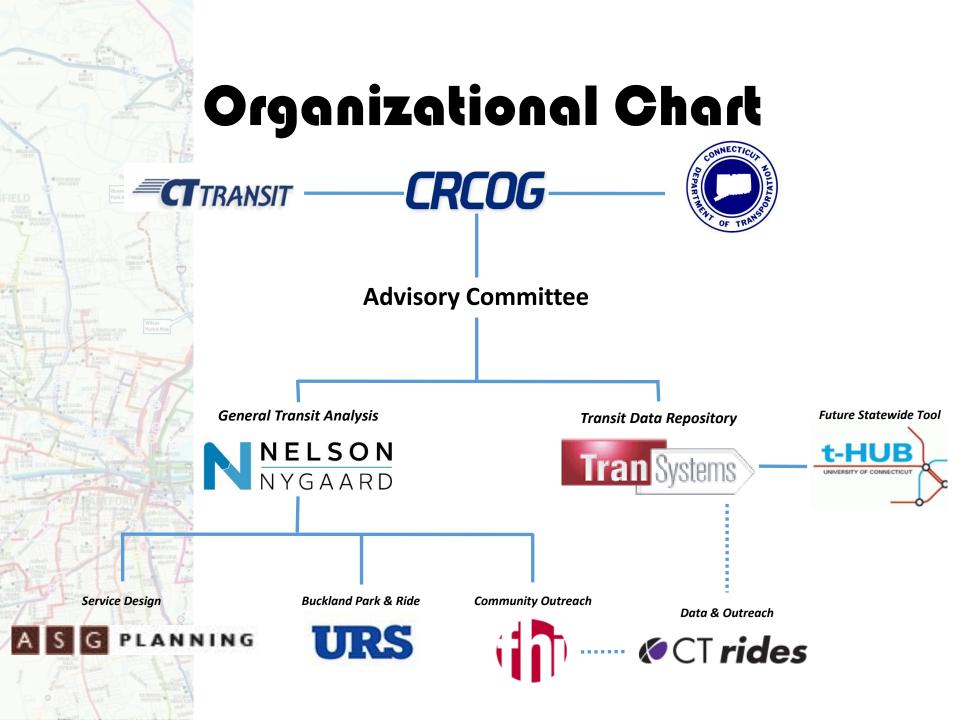
Data Set:		Crash Time Settings											
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	то:		Selected Days:	1st - 31st	Limit								
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Crash Severity:	🗹 Fatality 🗹 Injun	y (No fatality) 🗷 Pr	operty Damage Only										
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Scope Overview

Task 1: Project Management Task 2: Community Involvement Task 3: Develop a Transit Data Repository Task 4: Review of Current/Near Term Service Task 5: Service & System Evaluation Task 6: Assessment of Manchester P&R Task 7: Develop Service Proposals

Task 8: Evaluate Service Proposals & Make Recommendations

Task 9: Final Report & Executive Summary





Advisory Committee Responsibilities

- Participate in Advisory Committee Meetings (10 anticipated)
- Review distributed materials & provide guidance
- Participate in Technical Meetings as applicable
- Attend Public Meetings
- Help engage the public

Comprehensive Transit Service Analysis

Kick Off Meeting

SEPTEMBER 3, 2014

NELSON NYGAARD URS ()) A S G PLANNING



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Marrioff

Study Goals

- Review current and near term travel patterns and needs
 - CTFastrak, NHHS Commuter Rail and Bradley Airport
- Assess system efficiency and how well services match needs
- Identify strengths and weaknesses of existing system
- Identify unmet transit needs
- Recommend service improvements
 - Integrate with new system investments
 - Better serve existing riders
 - Attract new choice riders





technical approach

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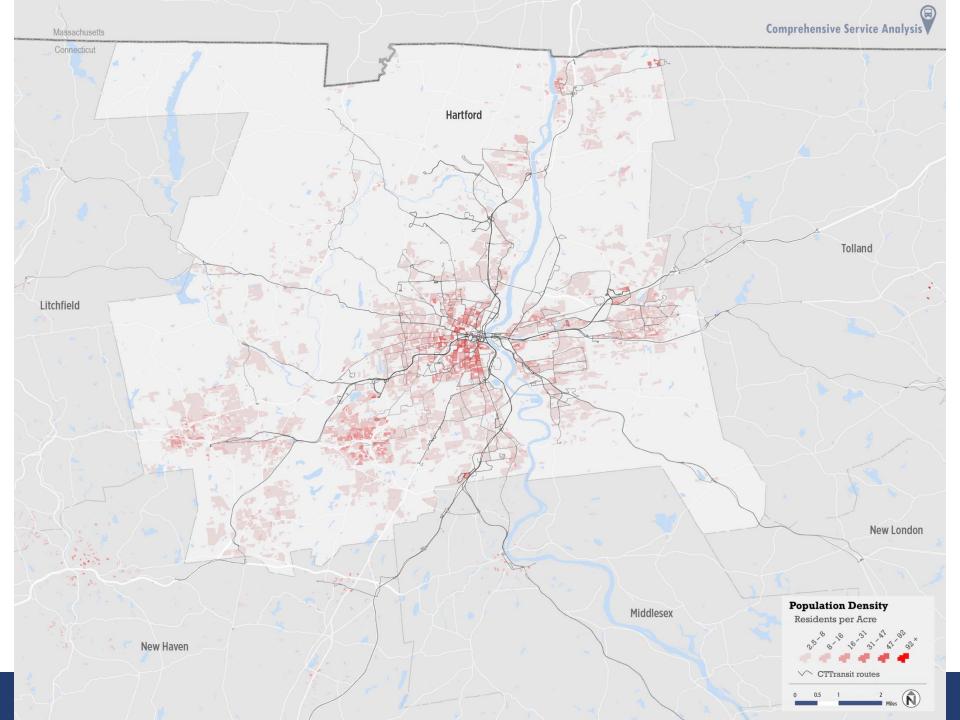
Marriott

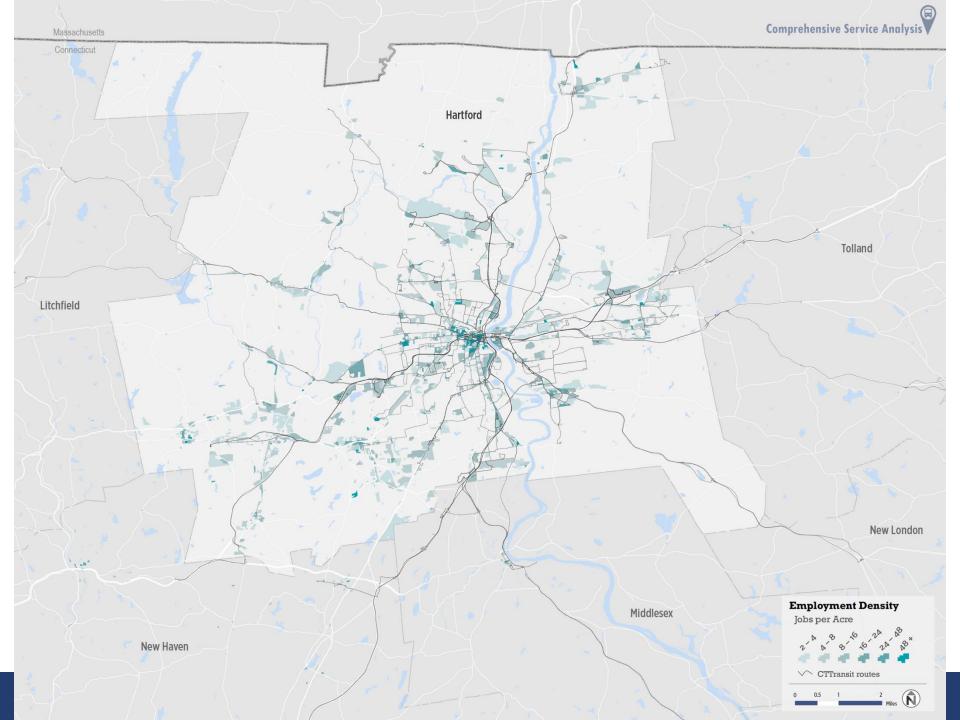
Evaluation of Current and Near Term Needs

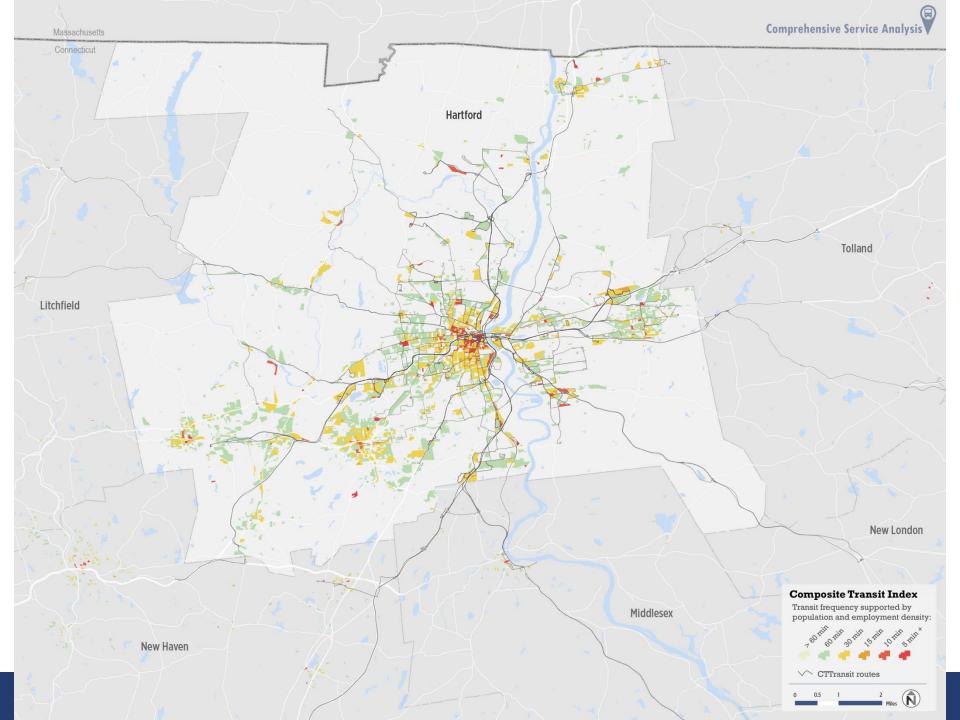
- Review relevant studies
- Identify existing and future markets for transit
 - Existing travel flows
 - Population and employment density
 - Demographics
 - Survey Results







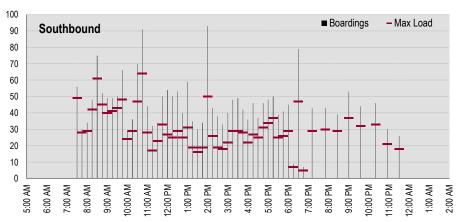


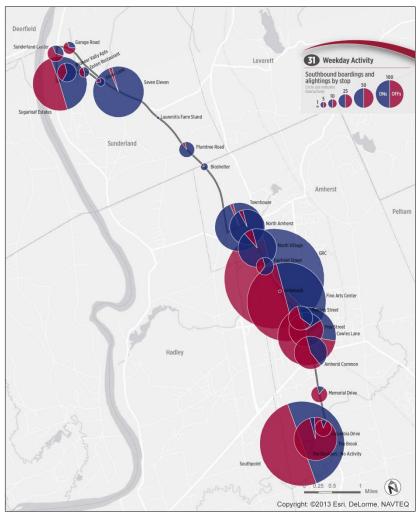


Service and System Evaluation

Route by route evaluation

- Ridership by stop
- Ridership by time of day
- Boarding/alighting profiles
- Productivity and performance







Manchester Buckland Hills Park and Ride Lot

Assess existing conditions

- Circulation to and within park and ride lot
- Vehicular traffic and circulation
- Bike and pedestrian needs

Determine short and long term facility needs

- Structures, buildings and parking
- Passenger drop off and pick up areas and amenities

Develop three basic short term conceptual site plans

- Internal and access improvements
- Order of magnitude costs
- General assessment of TOD opportunities

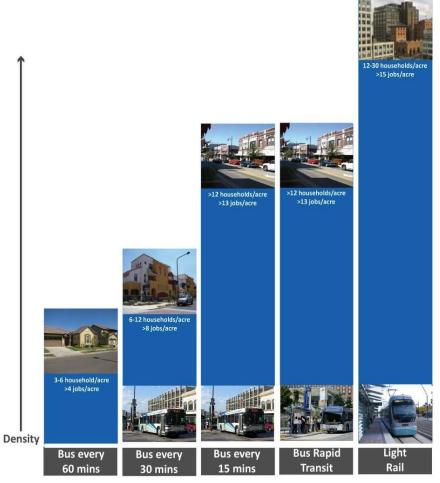




Develop Service Proposals

Create packages of service improvements

- Match service types with market needs
 - Density, demographic and geography
 - Full spectrum of transit service types
- Reflect realistic cost scenarios



Transit Mode

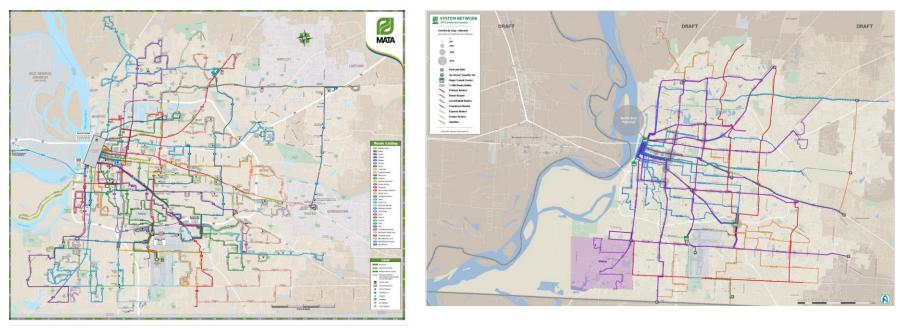




Evaluate Proposals - Make Recommendations

Create packages of service improvements

- Match service types with market needs
 - Density, demographic and geography
 - Full spectrum of transit service types
- Reflect realistic cost scenarios







Public Involvement

Surveys

- Rider Surveys
- Community Survey "Build a System" tool (NN)
 - <u>http://bouldertransitdesign.com/</u>
- Stakeholder Interviews
- Focus groups with riders
- Public Meetings
- Rider Drop In Sessions
- Website
- Presentations to CRCOG Policy Board/Transportation Committee





study schedule

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BRADLEY INT'L

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Marriott

Project Schedule	2014			2015												
	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
1 Project Management																
2 Community Involvement	Initia (Idea	al Outreach Is & <i>Desires)</i>					Build a Trans	it Tool Survey					Re	Vet Draft commendatio	ons	
3 Data Collection, Organization and Long Term Tracking				See TransSystems Scope												
4 Evaluation of Current and Near Term Service																
5 Service and System Evaluation																
6 Assessment of Manchester Buckland Hills Park and Ride Lot																
7 Develop Service Proposals for CTTRANSIT Hartford Region																
8 Evaluate Service Proposals/Make Recommendations																
9 Final Report and Executive Summary																





Next Steps

Project Webpage

- NN to host webpage
- Private portal for AC members

Stakeholder Outreach

Identify stakeholders

Focus Group Research

- Target groups
- Market Analysis/Needs Assessment
- Data Processing/Route Evaluations
- Buckland Hills Analysis







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Transit Data Repository Development

Kickoff Meeting

September 3, 2014





EXPERIENCE | Transportation



Meeting Agenda

- Project understanding
- Overview of tasks
- Tentative schedule
- Next steps



Project Understanding

Needs assessment

- Identify regional data sources
- Identify query/reporting Needs

Develop data repository

- Initial repository
- Repository maintenance
- Develop data query interface
- Ensure tHUB compatibility
- Documentation and training
- Transition ownership to CRCOG



Stakeholder Interviews

- 4 in-person meetings
- Data collection

Determination of reporting/query needs

- Metrics
- Visual presentation of data
- Canned versus ad-hoc query capability



Needs Assessment (contd.)

Data sources

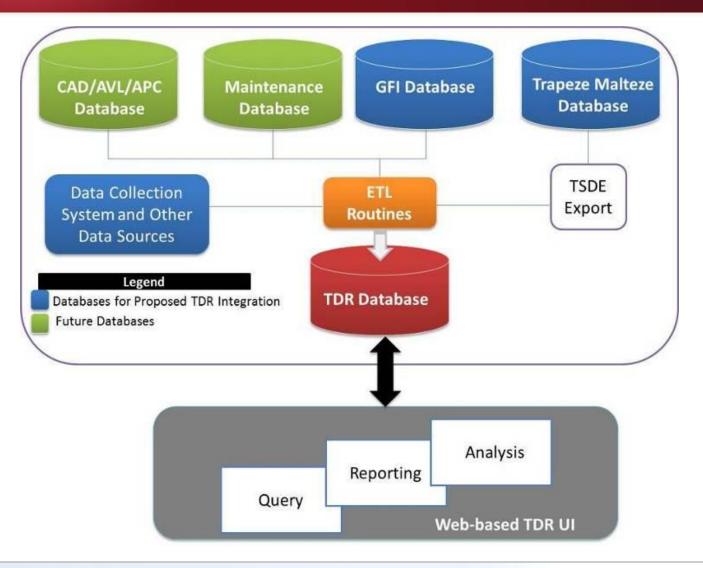
- Current data sources
- Future data sources
- Data collected by consultant
- Others

tHUB Compatibility

Deliverable: Needs Assessment and Strategy Memo



Repository Development





CRCOG Transit Data Repository

Database and query interface design

- Scalability and expandability
- Other best practices
- Open source development

Database development

- Coordination with stakeholders
- tHUB

Data import and export

- Data validation
- Automated routines



Repository Development (contd.)

Query and analysis interface development

- Development
- Testing

Documentation

- Query interface manual
- Data access, import/export process
- Data maintenance process

Transition to CRCOG

Deliverable: Repository & User Manuals



CRCOG Transit Data Repository

Task	Completion Date
Task 3.1-Kickoff Meeting	September 2014
Task 3.2-Needs Assessment	December 2014
Task 3.3-Data Collection	Handled by CRCOG Consultant
Task 3.4-Develop Data Repository	May 2015
Task 3.4 Test Data Repository	October 2015
Task 3.4-Project Completion	December 2015



CRCOG Transit Data Repository

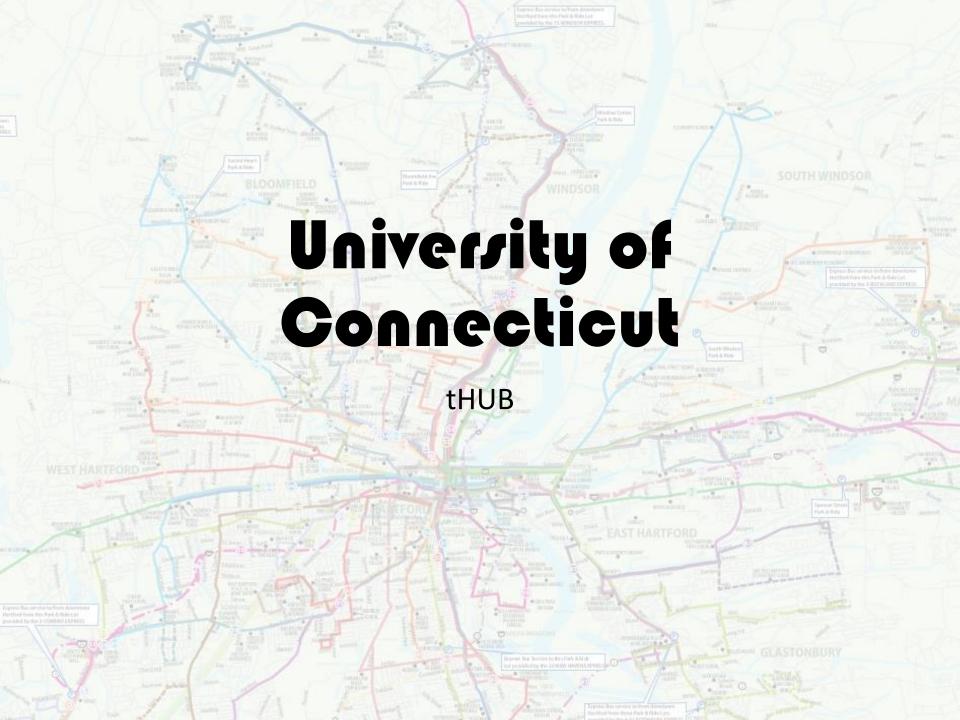
- Detailed work plan
- Initial data review
- Scheduling of in-person stakeholder meetings



CRCOG Transit Data Repository

Thank You !

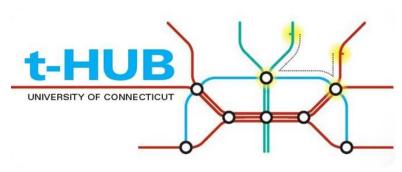
Santosh Mishra 38 Chauncy St, Suite 200 Boston MA 02111 <u>skmishra@transystems.com</u> 857-453-5466



t-HUB: Connecticut's public transportation data resource

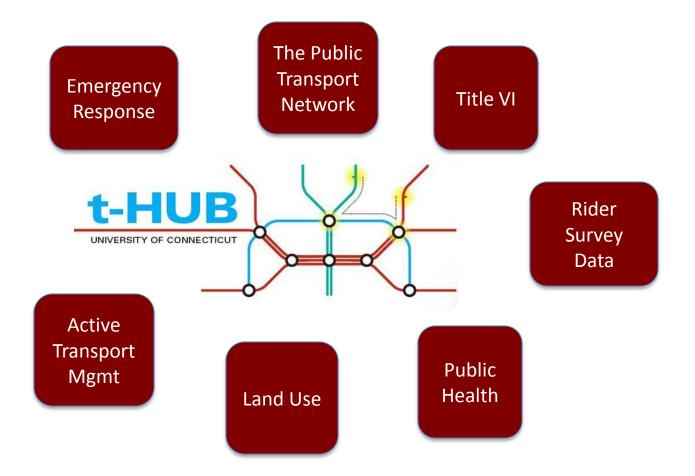
Nicholas Lownes, PhD, PE September 3, 2014

LCONN

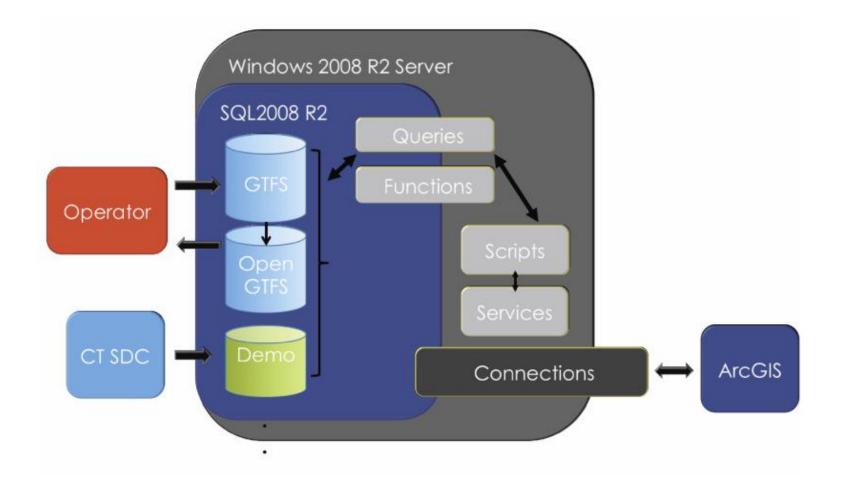


t-HUB Vision

...a Statewide public transport data resource



t-HUB architecture



Open, existing and available data sources: GTFS, Census (Connecticut State Data Center) and performance data.

Interactive Analysis

Parameters

Select Transit System

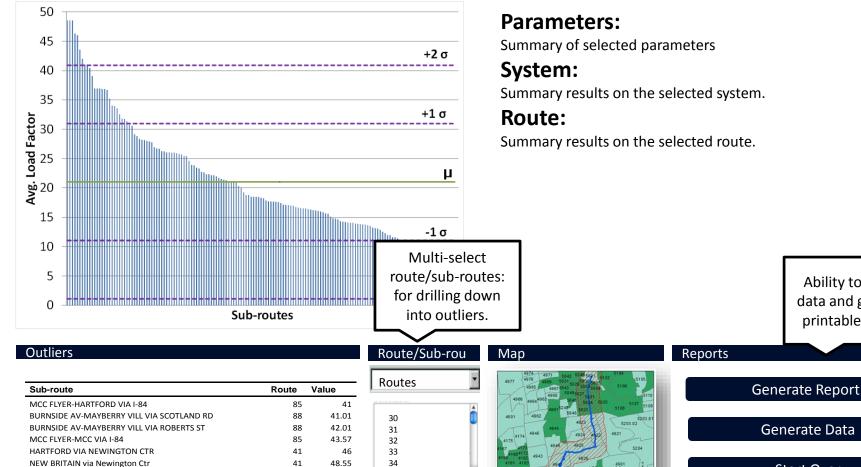
Select Performance Measure

Select Demographic Group

Select Demographic Spatial Unit

Select Buffer Distance

Histogram



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Change parameters for interactive analysis. Information provided in tooltips like these.

Summary Results

Start Over

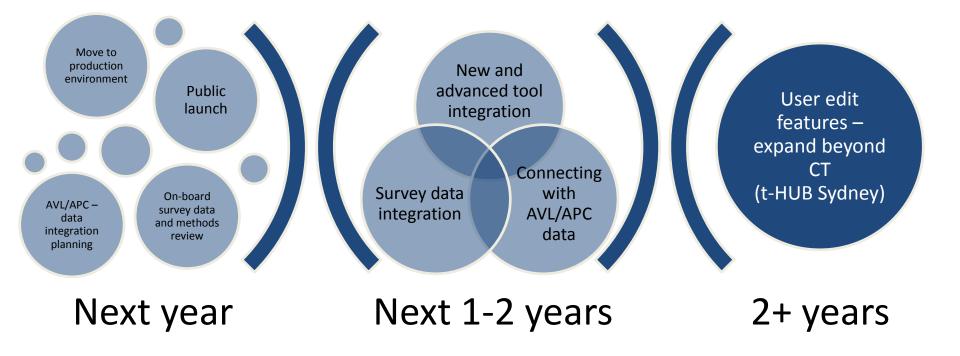
Generate Data

Ability to export

data and generate

printable report.

t-HUB Next steps



Thank you

contact: nlownes@engr.uconn.edu

t-HUB workshop 9/24/2014 info: www.thub.uconn.edu

