

MAKING AN IMPACT ON U.S. MANUFACTURING

National Institute of Standards and Technology U.S. Department of Commerce

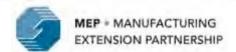
Buy America Transit Supply Chain Connectivity Forum





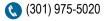
APTA Rail Conference Phoenix, AZ June 22, 2016

8:00am	Registration/Continental Breakfast
8:30am	Welcome Remarks and Forum Introduction
8:45am	U.S. DOT Keynote and Buy America Overview
9:25am	Q&A
9:40am	Break
9:50am	Arizona Public Transportation
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5:00pm	ADJOURN





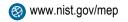


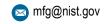


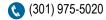


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WELCOME TO PHOENIX



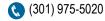
David Garafano Executive Director









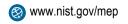


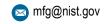


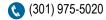


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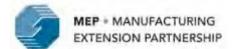




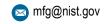
U.S. Department of Transportation

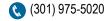


Lucy Garliauskas, Associate
Administrator for Planning and
Environment











U.S. Department of Transportation

Fixing America's Surface Transportation Act

Highway & Motor Vehicle Safety

Railroads

Public Transportation

Truck & Bus Safety

Hazardous Materials

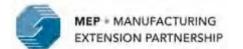
Roads & Bridges

5 YEARS



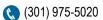


BILLION





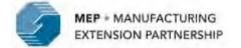






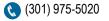
















Buy America 101

Richard Wong

Federal Transit Administration Washington, DC





Who Should be Aware of Buy America?

- Transit Agencies
- Government Officials
- Vehicle Manufacturers
- System Vendors/Aggregators
- Component Suppliers
- Architects and Designers



What Does Buy America Cover?

- Steel & Iron Products
- Manufactured Products
- Rolling Stock & Their Related Systems (train control, traction power, communications)

What Kind of Steel & Iron Products?

- Construction Materials
- Beams, Girders, Running Rail,
 Power Rail
- Excludes steel or iron components of rolling stock or manufactured products
- 100% U.S.-manufactured

What are "Manufactured Products?"

- The "catch-all"
- Includes "systems"
- 100% U.S. manufacturing
- 100% U.S.-made components
- Does not extend down to subcomponents



What is required for "Rolling Stock?"

- Buses, Railcars, Vans
- Final Assembly in the U.S.
- 60% U.S.-made components
- 60% U.S. subcomponents
- 65% in FY18 & FY19
- 70% in FY20
- Train control, traction power, & communication equipment

What was changed in the FAST Act?

- 60% U.S.-made components & subcomponents in FY16 & FY17
- Rises to 65% in FY18 & FY19, and 70% in FY20 & beyond
- U.S.-made Steel & Iron used in frames and car shells count towards U.S. content (\$300K floor)
- FTA must certify waiver denials

What Kind of Waivers Are Available?

- Non-availability
- Cost-differential
- Public Interest



How Do I Obtain a Waiver?

- Apply 49 CFR 661.9
- Federal Register Publication Notice and Comment
- NIST/MEP Scouting Search
- FAST Act certification process



Three Standing Public Interest Waivers

- Products on the FAR's Non-Availability Schedule (48 CFR 25.104)
- Microprocessors, Microcomputers,
 & Software
- Small purchases (fixed at \$150K by FAST Act)



How Is Buy America Enforced?

- FTA Buy America Audits & Reviews
- FTA Triennial & State Management Reviews
- Petitions from third parties
- Investigations 49 CFR 661.15
- FTA's right to inspect records and documents

What could result from enforcement?

- FTA's right to terminate or recover funding
- Re-procurement
- Debarment and Suspension
- Criminal Penalties



What's in FTA's BA pipeline?

- Guidance on FAST Act amendments (April 6, 2016 Federal Register Notice & Waiver)
- Updated Pre-award/Post-delivery Handbook
- Guidance on Security and Surveillance Systems
- Proposed Minivan Waiver

Where can I go for further assistance?

- www.fta.dot.gov/buyamerica
 - Regulations
 - Waivers & Decisions
 - Audit Handbooks & Guidance
 - NIST/MEP Program
 - Policy Statements



Buy America Recap

- FTA's Buy America requirements apply to the following items:
 - Steel and Iron
 - Manufactured Products
 - Rolling Stock
- Domestic content is increasing
- Help is available

Questions?

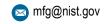
- Richard.Wong@dot.gov
- https://www.transit.dot.gov/regulationsand-guidance/buy-america/buy-america
- http://www.fta.dot.gov/buyamerica
- https://www.transportation.gov/highlights/buyamerica

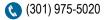


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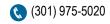








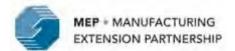


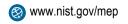


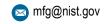


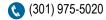


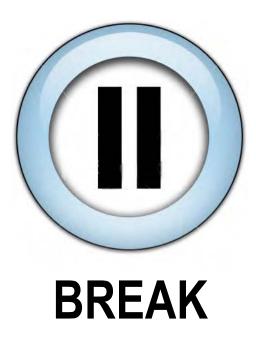
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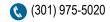










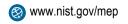


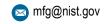


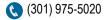


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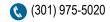




Scott Smith, Interim CEO Valley Metro



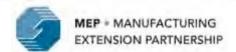






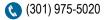


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Transit Original Equipment Manufacturer and Tier 1 Supplier Panel ALSTOMM

- ALSTOM Transportation
- Bombardier (MORNING OEM PANEL ONLY)
- Fuji Electric
- Kawasaki Motor Manufacturing
- Siemens (one-in-one meetings only)
- Stadler Rail



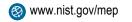
the evolution of mobility



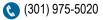


STADLER













Federal Transit Administration (FTA) / National Institute of Standards and Technology (NIST) Manufacturing Extension Partnership (MEP)

Buy America Transit Supply Chain Connectivity Forum

June 22, 2016

ALSTOM Products and Services

TRAINS



- Streetcar, LRT, metro, commuter, high speed, very high speed, locomotive
- Components: traction, bogie, motor
- NAM HQ: Hornell, NY



45%



GERVICE



- Maintenance
- Modernisation
- Spare parts, repairs and overhaul
- Support services
- NAM HQ: Naperville, IL



23%



GIGNALING



- Signaling solutions portfolio for:
 - Main lines and urban systems
 - Train control, security, and communications
 - CBTC and PTC
- Sold as products or solutions
- NAM HQ: Rochester, NY



20%



SYSTEMS



- Integrated solutions (turnkey)
- Infrastructure, including power supply and distribution, electro-mechanical, and track
- Systems Integration
- NAM HQ: New York, NY



12%



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A company with annual sales of \$7+ billion

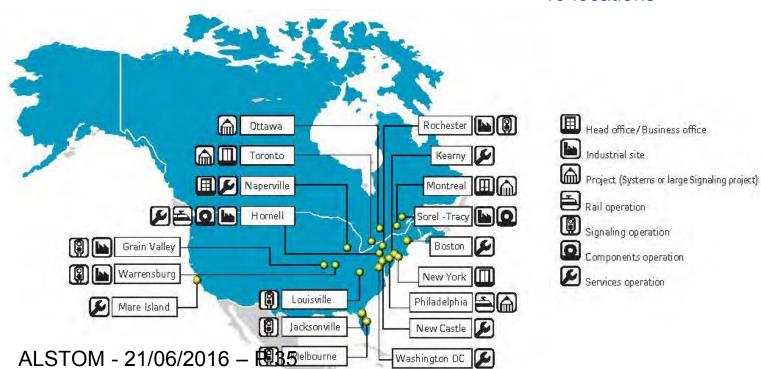
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Note: all figures include the signaling activity recently acquired from General Electric



North America Presence

- 2,000 employees
- 19 locations



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- Electric Janet Phillips: janet.phillips@transport.alstom.com
- A-Systems Genoveva Bonora: genoveva.bonora@transport.alstom.com
- Interiors Philip Stewart: philip.stewart@transport.alstom.com

Services

Monica Sampleton: monica.sampleton@transport.alstom.com

Signaling

- Please visit Alstom booth at Railway Systems Suppliers Exhibition
 - June 28-30, Grapevine, TX

Systems

Barbara Schroeder: barbara.schroeder@transport.alstom.com

DBE / SBE

- Talmech Williams: <u>talmech.williams@transport.alstom.com</u>
- Michelle Studer: michelle.studer@transport.alstom.com
- Bart Spangler: <u>bart.spangler@transport.alstom.com</u>

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www.alstom.com





BOMBARDIER

BOMBARDIER the evolution of mobility

BUILT ON INGENUITY

1942-73

- Company start-up
- Development of passenger and personal snowmobiles
- Vertical integration
- Energy crisis provoked market collapse

1974-85

- Diversification into mass transit market
- Learning of new industry
- 1982 New York metro contract secured strong position in American market



1986-93

- Entry into aerospace through Canadair acquisition
- Consolidation of North American mass transit position and reinforcement of presence in Europe



BUILT ON INGENUITY

Strategic acquisitions

- Aerospace: Short Brothers (U.K.), Learjet (U.S.), de Havilland (Canada)
- Transportation: BN (Belgium),
 ANF (France), Deutsche
 Waggonbau (Germany),
 Concarril (Mexico), Talbot
 (Germany), Adtranz (Germany)

BOINBARDIER THE TOURDLIVE TRAXX Family

1993-2003

- CRJ Series, Global Express, Challenger 300
- Tilting train, AGC (Autorail Grande Capacité)
- Sale of Recreational products business unit



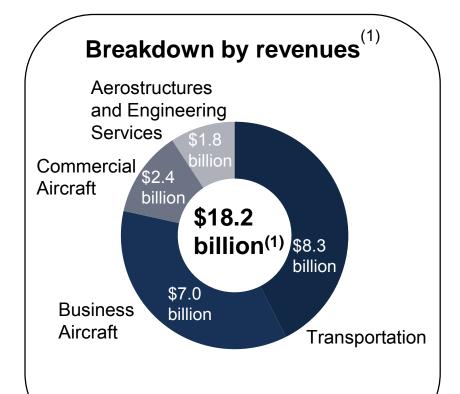
2003-2012

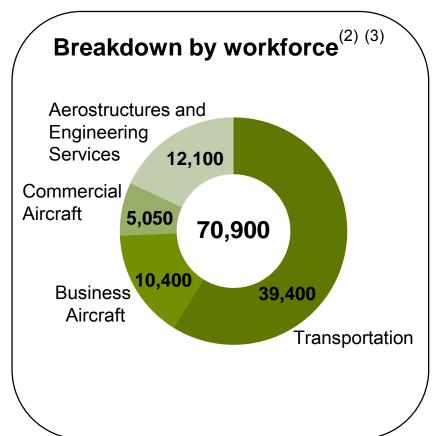
- CRJ1000, CRJ NextGen family, Learjet 85, Q400 NextGen, CSeries, Global 7000, Global 8000
- Historical EBrakes first flight
- New aerospace manufacturing centre in Mexico
- Hybrid AGC, ZEFIRO, ECO4
- Transportation's expansion into emerging markets



Challenger, Challenger 300, CRJ, CRJ1000, CSeries, EBrakes, ECO4, Global 7000, Global 8000, Global Express, Learjet, Learjet 85, NextGen, Q400 and ZEFIRO are trademarks of Bombardier Inc. or its subsidiaries.

BOMBARDIERA diversified company





⁽²⁾ As at December 31, 2015, including contractual and inactive employees. Subsequent to the end of the fiscal year, we decided to take steps to optimize our workforce with a combination of manpower reduction and strategic hiring. These figures do not reflect the planned changes.





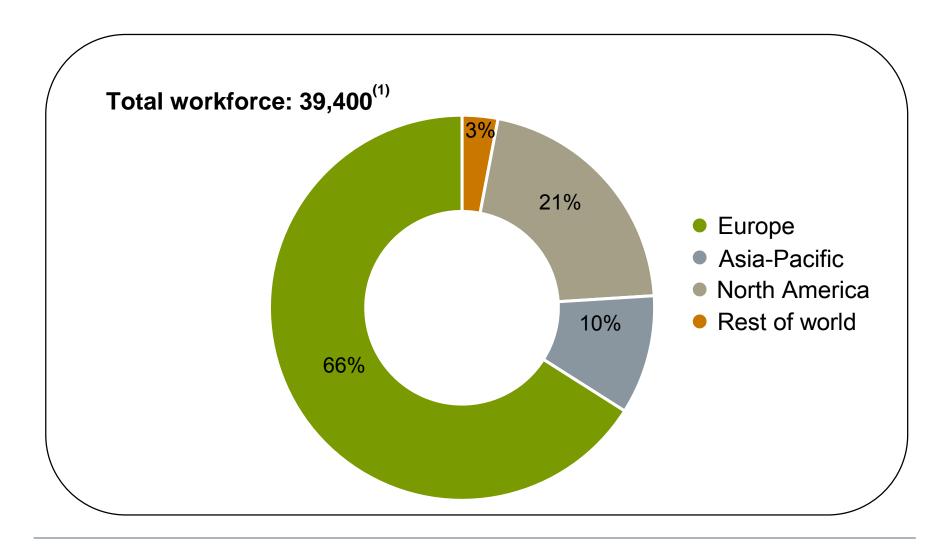
⁽¹⁾ For fiscal year ended December 31, 2015. Consolidated revenues \$ 18,2 billion.



BOMBARDIER TRANSPORTATION



BOMBARDIER TRANSPORTATION Employees by geographic region





BOMBARDIER TRANSPORTATION A global player with a European base



Revenues 2015⁽¹⁾: \$8.3 billion

Employees(2): 39,400

Global Headquarters

Production Sites







BOMBARDIER TRANSPORTATION



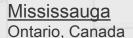


Bombardier Transportation Americas

Manufacturing Capacity and Centres of Competence



Thunder Bay Ontario, Canada





<u>Pittsburgh</u>

Pennsylvania, United States









<u>La Pocatière</u> Québec, Canada

St-Bruno Québec, Canada

Plattsburgh New York, United States



Kingston Ontario, Canada



Sahagun and Huehuetoca Mexico



OUR PRODUCTS AND SERVICES

THE BROADEST PORTFOLIO IN THE RAIL INDUSTRY

Rail Vehicles



- Light rail vehicles
- Metros
- Commuter trains
- Regional trains
- Intercity trains
- High speed trains
- Locomotives

Transportation Systems



- Monorail systems
- APM systems
- Light rail systems
- ART systems
- Metro systems
- Intercity systems
- Transit Security

Services



- Fleet management
- Operations & maintenance
- Material solutions
- Vehicle refurbishment
- Component reengineering

Rail Control Solutions



- Integrated control systems
- Automatic train protection and operation
- Interlocking systems
- Wayside equipment
- Services

Propulsion & Controls



- Traction converters
- Auxiliary converters
- Traction drives
- Control and communication

Bogies



- Portfolio to match entire range of rail vehicles
- Full scope of service over the lifetime of a bogie

BOMBARDIER TRANSPORTATION

LEADER IN RAILWAY PRODUCTS AND SERVICES IN THE AMERICAS



Operations & Maintenance Toronto (Canada)



Metros Montréal (Canada)



Double Deck Trains
BiLevel Coaches (Canada, USA)



Commuter Trains
EMU M-7 (New York, USA)



Low Floor Trains
FLEXITY Outlook (Toronto, Canada)



Dual-Powered Locomotive New Jersey and Montréal



APM Systems INNOVIA - Dallas/Fort Worth Airport (USA)



ART Systems
SkyTrain Vancouver (Canada)



Monorail Systems Las Vegas (USA)



MultiLevel commuter cars Montreal (Canada)



High Speed Trains
Acela Express (USA)



Rubber-tyred metros *Mexico, Canada*

VERY STRONG BACKLOG OF PROJECTS TO DELIVER

- Montréal AZUR metro, 468 cars
- NYCT R-179 metro, 300 cars
- San Francisco BART metro, 775 cars
- Toronto Rocket metro, 480 cars
- CEM Bilevel, 204 cars (+125 options)
- Chicago APM
- São Paulo Monorail
- Toronto Streetcar, 204 cars
- Metrolinx LRV, 182 vehicles
- Region of Waterloo LRV, 14 vehicles
- Edmonton LRV
- Guadalajara LRV, 14 vehicles
- Progress Rail Locomotive assembly and parts manufacturing



















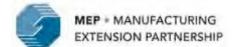
BOMBARDIER

BOMBARDIER the evolution of mobility



Sales & Engineering Manager

bhouston@fujuelectric.com













Rail Car Division

Kawasaki Motors Manufacturing Corp., U.S.A. Rail Car Division





Kawasaki Motors Manufacturing Corp., U.S.A. (KMM)



Location:

6600 NW 27th Street Lincoln NE 68516 U.S.A.

Established:

1981 (Operation started on 1974 as Kawasaki Motors Company facility)

Rail Car: 2001

Products:

Rail Cars, Jet Ski Water Craft, ATVs, Utility Vehicles, RUVs, ATV & RUV Rims

Land Area:

Total: 335 acres (Rail Car: 57 acres)

Factory Floor Space:

Total: 2,007,000 ft² (Rail Car: 733,000ft²)



Quality and Environmental System

- ISO 9001 Quality Management System Registered, December 2005
- ISO 14001 Environmental Management System
- Registered, May 2005





Manpower

Highly Skilled Workforce





History

Aug 2000 - Announced plan to build Rail Car Facility

Nov 2000 - Began construction of Rail Car Facility

Nov 2001- Began Production of Rail Cars (NYCT R142A)

Jan 2002 - First Rail Car shipped from KMM

Nov 2002 - Completed last R142A for NYCT (120 Cars)

Dec 2002 - Completed last R143 for NYCT (8 cars)

Nov 2004 - Completed last R142S for NYCT (80 Cars)

May 2006 - Completed last double-deck coach for MBTA (29 Cars)

Feb 2008 - Shipped 500th Car (NYCT R160B)

Feb 2010 - Shipped 1,000th Car (PATH PA5)

Mar 2010 - Completed last NYCT R160B (650 Cars)

Mar 2011- Function Test Facility Operational

May 2011- Completed PATH PA5 Base Order (332 Cars)

Jan 2012 - Completed PATH PA5 Option Order (10 Cars)

Mar 2013 - Completed 1,500th Car (MNR M8)

Mar 2014 - Completed 126 R188 cars for NYCT

Present - Building 366 M8 cars for Metro North Railroad

- Building 528 WMATA 7000 Cars

Future - M9 Cars for Long Island Railroad











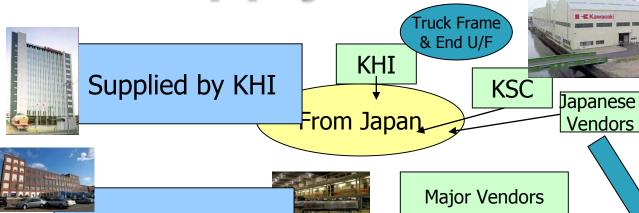








Supply Chain



KMMMade in America

Supplied by KRC





Supplied by KMM

Painting, Sheet Metal

In house Manufacturing



USA Vendors









KHI-KMM Technology Transfer





Production Flow





Fabrication (A/B/F/G Lines)



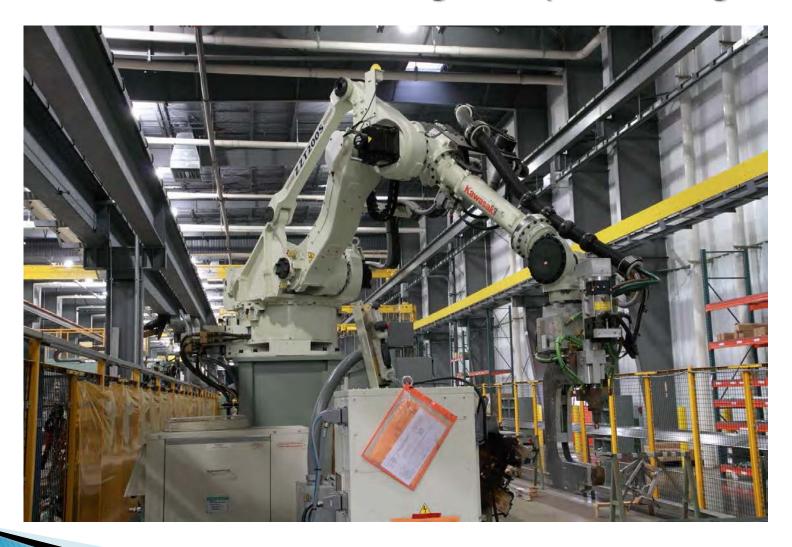






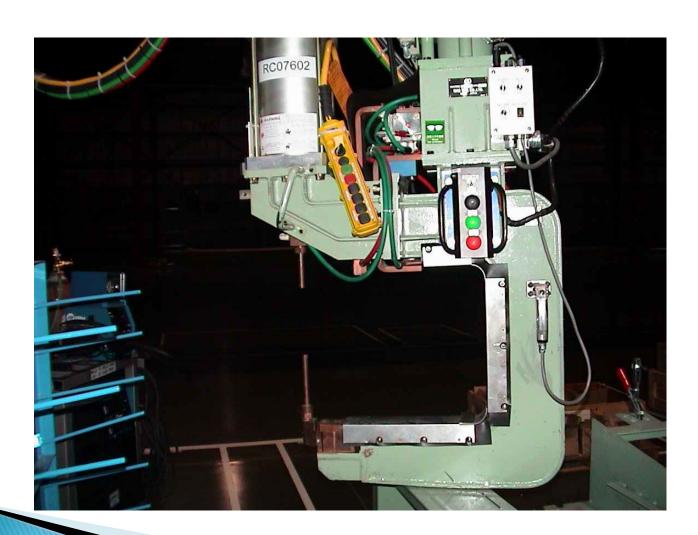


U10 Robot(Plasma Cutting and Spot Welding)





Spot Welding Machine





Automatic Spot Welding Machine for Side Panel





Automatic Roof Welding Machine



Kawasaki Kawasaki Motors Manufacturing Corp., U.S.A.

Interior Fitting (C/D/H/J Lines)











Truck Assembly and Testing











Water Tightness Test Facility











Function Test Facility



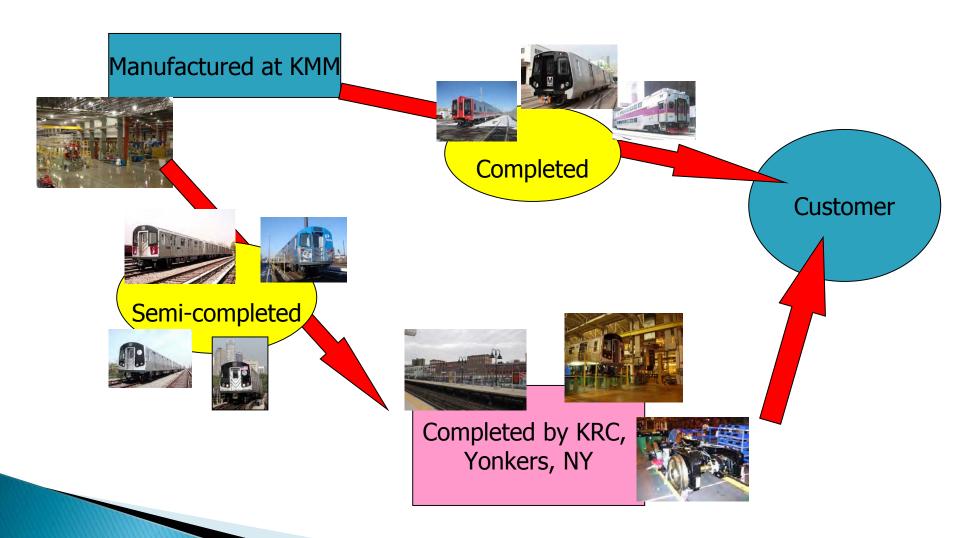








Ship out from KMM





Ship Out Crane





Ship Out by Truck to KRC



Ship Out by Roll-on Roll-off Trailer to Customer





Ship Out by Rail to Commissioning Site





MTA New York City Transit R142A/R142S (200 Cars)





MTA New York City Transit R143 (8 Cars)



First Cars Completely Fabricated at KMM (2002)



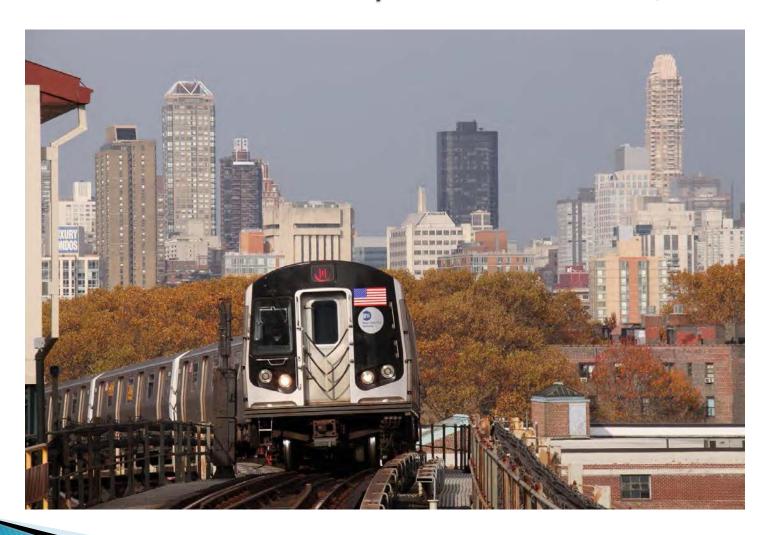
Massachusetts Bay Transit Authority Boston Double Deck Commuter Car (29 Cars)



First Car Transported to Customer by Rail from KMM (2004)



MTA New York City Transit R160B (650 Cars)





Port Authority Trans-Hudson PA5 (342 Cars)





MTA New York City Transit R188 (126 Cars)





MTA Metro-North Railroad M-8 (366 Cars)



Complete Static and Dynamic Function Testing at KMM



Washington D.C. Metro Area Transit Authority WMATA 7000 (528 Cars)





Future - Long Island Railroad M-9





Thank you very much

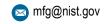
ありがとうござ いました。

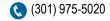


WILL BE AVAILABLE AT THIS AFTERNOON'S ONE-ON-ONE MEETINGS

Nicolas Alezeau nicolas.alezeau@siemens.com Angel Viera-Di Scioscia angel.viera@siemens.com













THE STADLER RAIL GROUP BUY AMERICA TRANSIT SUPPLY CHAIN CONNECTIVITY FORUM

Fabio Mueller, Phoenix, 22 June 2016

STADLER



AGENDA



1. 1	The	Stadler	Rail	Group	Page 3
------	-----	----------------	------	-------	--------

- 2. Product Portfolio Page 7
- 3. Stadler US Inc. Page 10
- 4. TEXRail Page 13

DIVISIONS

Switzerland



Stadler Bussnang 1700 employees



Stadler Altenrhein 950 employees

Stadler USA*

Stadler Australia*

* Ramp-up phase.

Germany



Stadler Pankow Berlin / 1000 empl.



Stadler Pankow Velten / 40 employees 50 employees



Stadler Reinickendorf 60 employees

Central Europe



Stadler Polska 800 employees



Stadler Praha



Stadler Minsk 300 employees

Spain



Stadler Rail Valencia 900 employees

Components



Stadler Winterthur 220 employees



Stadler Stahlguss 120 employees



Stadler Szolnok 362 employees

Services



Stadler Algeria 100 employees

Stadler Netherlands 80 employees

Stadler Linz 20 employees

Stadler Meran 10 employees

Stadler Pusztaszabolcs 72 employees

Stadler Service 70 employees

Stadler Sweden 20 employees

Stadler Poland 30 employees

AN OVERVIEW

Facts and figures

Production and maintenance sites

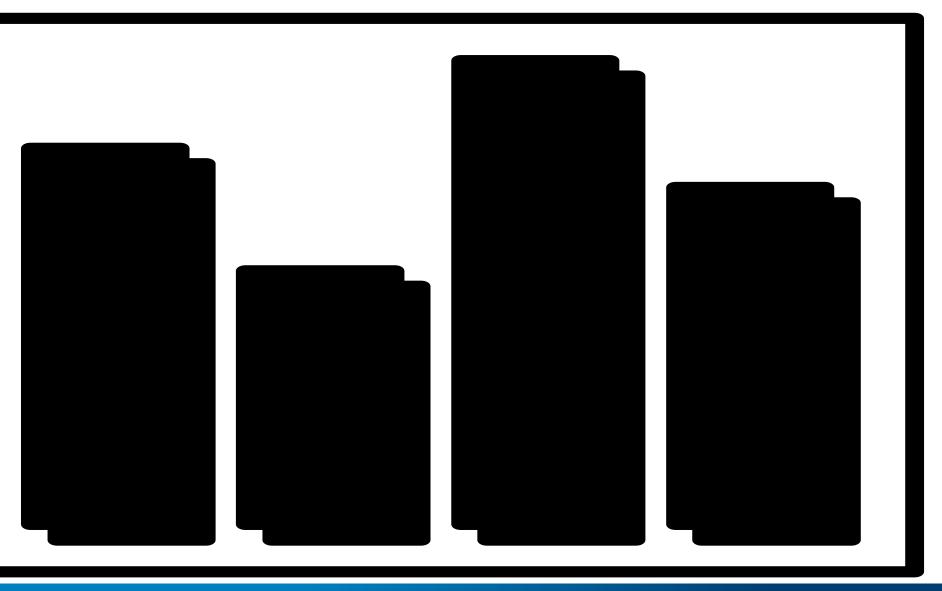
Bussnang	Switzerland	EMU, DMU, Tailor Made
Altenrhein	Switzerland	EMU, Double-Decker EMU, LRV
Winterthur	Switzerland	Bogie Manufacturing
Biel	Switzerland	Steel Casting
Pankow	Germany	EMU, Double-Decker EMU, DMU, LRV, Metro
Valencia	Spain	D-Locs, Dual Locs, LRV, Metro
Siedlce	Poland	EMU, DMU
Minsk	Belarus	EMU, Double-Decker EMU, DMU, LRV, Metro
Szolnok	Hungary	Car Body Production
Salt Lake City*	United States	DMU
New South Wales*	Australia	EMU

Maintenance sites in: Switzerland, Germany, the Netherlands, Hungary, Italy, Algeria, Poland, Austria, Norway, Sweden, Denmark*

Since the takeover by Peter Spuhler in 1989, Stadler Rail has achieved strong growth Some 7000 employees work in Stadler Rail's international production and maintenance network

^{*} Ramp-up phase.

EMPLOYEE DEVELOPMENT



AGENDA



1. The Stadler Rail Group Page 3

2. Product Portfolio Page 7

3. Stadler US Inc. Page 10

4. TEXRail Page 13

PRODUCT PORTFOLIO

		Segmentation		Modular concepts Adhesion engines	Tailor-made concepts Adhesion and rack engines
	LRV	Tram	≤80 km/h		
Urban		Tram train	≤100 km/h		
J.	Metro	Metro km/h	≤100		
Railway vehicles	DMU	Commuter / regional	≤140 km/h		
	EMU	Commuter / regional	≤160 km/h		
		Intercity	≤200 km/h		
		High speed	≤250 km/h	Out of scope	Out of scope
ilway		Very high speed	>250 km/h	Out of scope	
Ra	Loc.	Mainline loc. diesel / dual / electric			
		Shunting loc. / special purpose vehicle		Ten Persons	
	Coaches	Passenger and sleeping coaches			
		Freight wagons		Out of scope	Out of scope

STADLER RAIL'S REFERENCES - UNITS SOLD

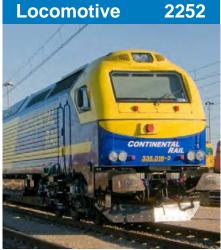
















AGENDA



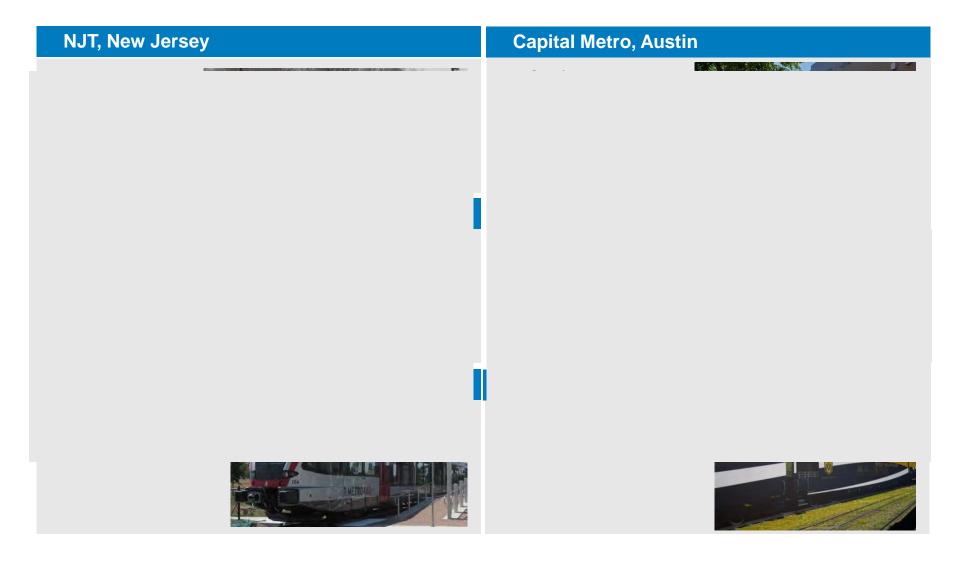
1. The Stadler Rail Group Page 3

2. Product Portfolio Page 7

3. Stadler US Inc. Page 10

4. TEXRail Page 13

US MARKET DELIVERIES



STADLER US INC.- UTA WARM SPRINGS FACILITY









AGENDA



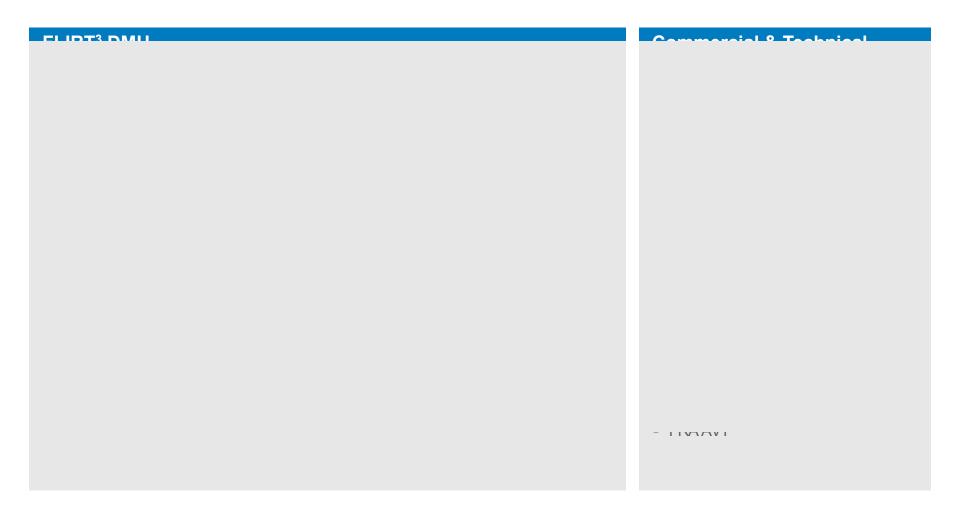
1. The Stadler Rail Group Page 3

2. Product Portfolio Page 7

3. Stadler US Inc. Page 10

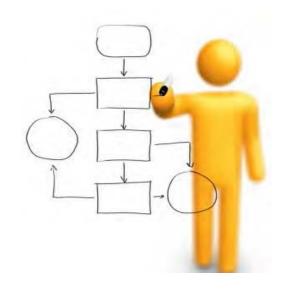
4. TEXRail Page 13

TEXRAIL – BUY AMERICA COMPLIANT



BECOMING A STADLER SUPPLIER







Requirements

- Ability to handle EN
 Norms and Material
- On-time delivery
- High quality
- Small quantities
- Certifications (NFPA 130)

Process

- Questionnaire
- Audit
- RFQ
- Analysis of Quote
- Order
- Delivery Inspection

Needs

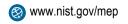
- Metal fabrication(Aluminum, Stainless)
- Plastic parts (Side wall panels, Thermoformed parts, Plastic bearings)



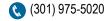
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5:00pm	ADJOURN





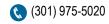








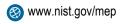


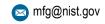


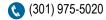
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5:00pm	ADJOURN









Supplier Panel - The View from Prospective Transit Suppliers

CLEVELAND ELECTRIC LABORATORIES

- Cleveland Electric Labs
- Pilgrim Screw Corporation
- Ridgetop Group
- St. Clair Technologies





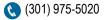
Thermocouples & Sensing Solutions Since 1920













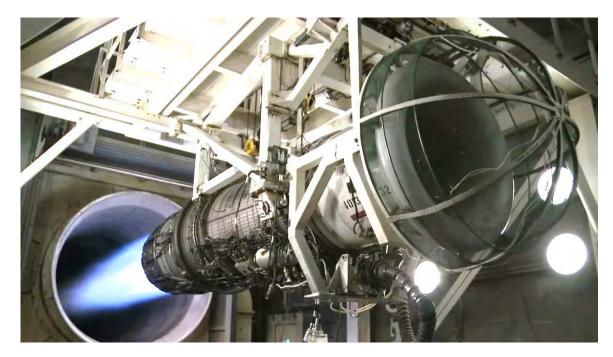




Temperature measurements, turbine engine instrumentation





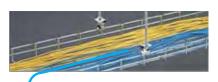






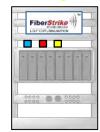














Bridge structural monitoring





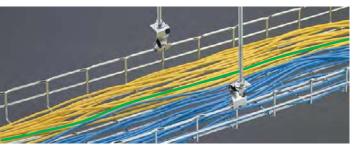




Perimeter and communications pathway protection









Manhole covers, platforms, enclosures monitoring

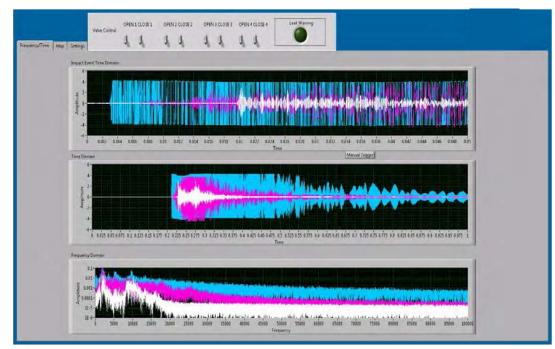






Pipeline leak and impact events - detection and location







Rodger Shephard
Vice President
(480) 967-2501
rshepherd@cel-atg.com
www.clevelandelectriclabs.com





HISTORY

•	1932	Founded	by	Fred	Saha	kian
---	------	---------	----	------	------	------

- 1941 Jewelry to screws
- 1961 Gary Grove joins the firm
- 1970 Stainless steel focus
- 1987 Aerospace & Defense focus



PRODUCTS

- > Fasteners
 - Screws, Bolts, Pins, Rivets, Panel Fasteners
- Size Capabilities
 - ➤ 0.060 to 1.25 inch diameter
 - Length: up to 36 inches
 - Metric: M1.6 through M25 diameter
- Consensus standards
 - > AN, MS, NAS, NA, DIN, BS, ISO
 - OEM standards and specials
- Pilgrim Engineered Fasteners
 - Pi-Lok panel fastener
 - > PIL290 test bolts
 - US Army Guide pins
 - R&D for AA and Airbus



QUALITY

- >AS 9100
- **≻**ISO9001
- > DFARS
- >AMERICAN MADE



APPROVALS

Airbus

Aernnova

BAE Systems

B/E Aerospace

Bell Helicopter

Boeing

Bombardier

Cessna Aircraft

Embraer

General Dynamics

General Electric

Goodrich

Gulfstream

Hamilton-Sundstrand

Hawker Beechcraft

Honeywell

Israel Aircraft Industries

Learjet

Lockheed Martin

NASA/JPL

Northrop Grumman

Raytheon

Rockwell Collins

Rolls Royce

Sikorsky

Spirit Aero Systems

Textron

Triumph/Vought



CUSTOMER SERVICE

- ➤ On Time Delivery is our top priority
- **►NPS 72**
- > Dedicated inside sales representative
- >Our goal is to exceed your expectations



THANK YOU

- Get registered on <u>our web site</u>
 - www.pilgrimscrew.com and save to your favorites
- Follow us on <u>LinkedIn</u> and <u>Facebook</u>
- Put us in your Outlook Contacts
- Thank you for making us part of your supply chain!

Remember



RailSafe™ **Track and Wheel Health Analysis System**

Doug.Goodman@RldgetopGroup.com

June 2016



Ridgetop Group, Inc.

- Incorporated in 2000, and headquartered in Tucson, AZ. Ridgetop Europe is established in Belgium.
- **Advanced Diagnostic and Prognostic** solutions:
 - RailSafe™ Rail Transit Integrity Tool
 - Sentinel Suite™ Prognostic Analysis **Platform**
 - State of Health (SoH) and Remaining Useful Life (RUL) on complex electromechanical systems.
 - **Design and Integration Services**
- Strong market position with commercial and government customers in USA, Canada, Europe, and Asia



Ridgetop Group Facilities in Tucson, AZ



Ridgetop Europe Facilities in Brugge, Belgium

Partners and Customers













Raytheon

Honeywell



BAE SYSTEMS

Transit Problem Statement

- **Decaying Railroad** Infrastructure; track, rolling stock, bridges
- Wheel cracks, flat spots, defective bearings and connections to axles
- Transportation of Dangerous materials such as flammable liquids and gases
- Lack of mechanism to prioritize maintenance actions.





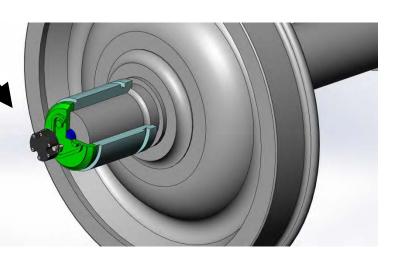
Safety Solution

RotoSense™ Wireless Rotational Vibration Sensor





Mount two wireless RotoSense™ sensors, one on each side of the axle end caps. All wheels have sensors mounted.



NASA Spinoff – RotoSense™



Full article here: http://spinoff.nasa.gov/Spinoff2012/t 6.html

RailSafe™ Wireless Testing Conducted at Pueblo Test Facility

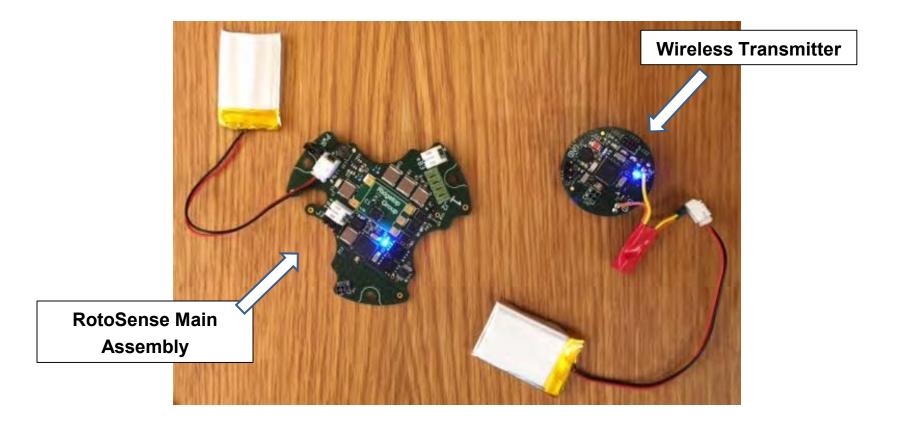






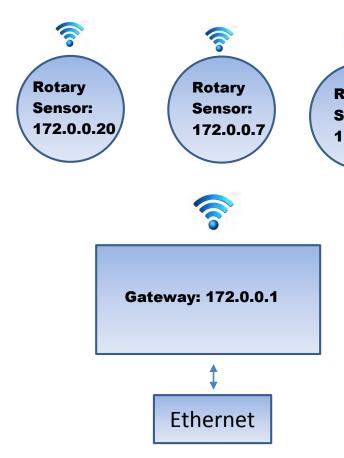
RotoSense Hardware Components

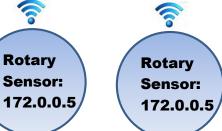
IEEE 802.15.4 low power wireless network standard



Standard TCP/IP Implementation

Each Gateway along with each sensor node has discoverable IP addresses









IEEE 802.15.4 low power wireless network standard.

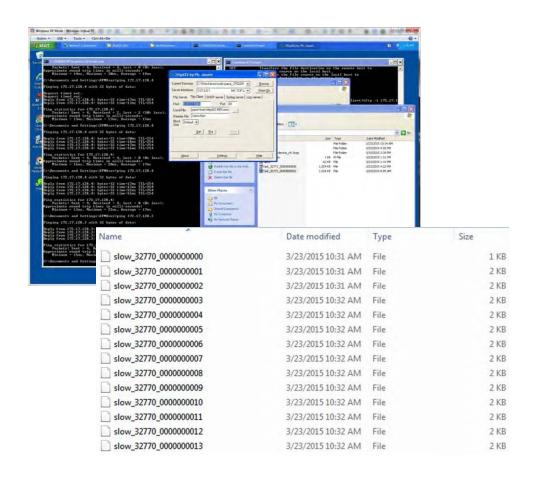
10m / ~32' range

RJ45 Ethernet connection using TCP/IP

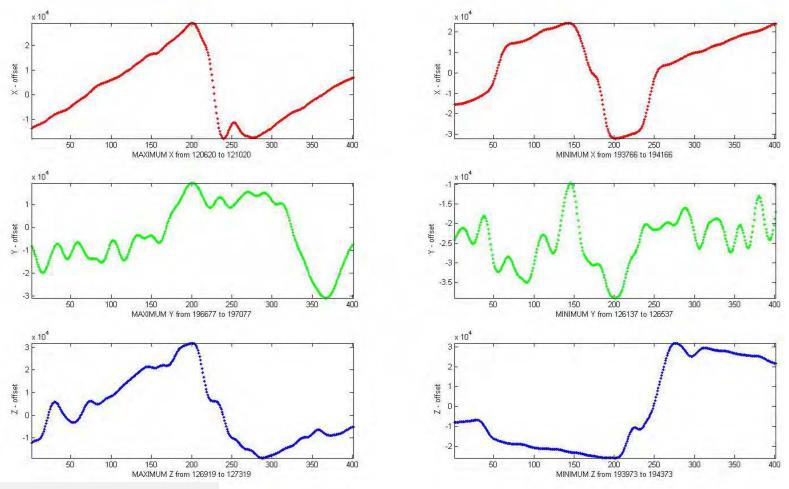


RailSafe Wireless Real Time Data Transfer





RailSafe Raw Data Plots



Red = X = Horizontal motion Green = Y = Vertical motion Blue = Z = Lateral motion

RailSafe™ Complete Solution

- Continuous RotoSense™ sensor monitoring with analysis using proven Ridgetop algorithms
- Provides system-level State of Health (SoH) indication with accurate Remaining Useful Life (RUL) estimates
- Results can be integrated with existing CBM systems



Contact Information

Ridgetop Group Inc.



Advanced Diagnostics and Prognostics Ridgetop Group, Inc.

Doug.Goodman@RidgetopGroup.com





St. Clair Technologies provides costeffective, innovative solutions, tailored
to our customers' specific needs. St. Clair
is recognized in the industry for our ability
to manage customer programs regardless of
volume, complexity or product mix as
evidenced by our diverse customer base and
the various market segments we support.

St. Clair is a full service supplier offering collaborative solutions from the development phase to production launch, utilizing innovative and proprietary systems. Our expertise spans an array of industries including automotive, military, bus, RV, truck, marine, alternative energy and aerospace.





CERTIFICATIONS

ISO/TS16949

ISO 9001 & ISO 14001

AS9100C

U.S. Government certified—Military (DOD CCR)

IMDS Compliant

CTPAT & FAST

ITAR Registrant Code: M23465

UL Registrant Code: E6123

Women Owned Business Status (WBENC) via

MATH Solutions, LLC. (see pages 32-33)

LOCATIONS

Corporate Office * Wallaceburg, Ontario, Canada

Regional Office

* Chandler, Arizona, USA

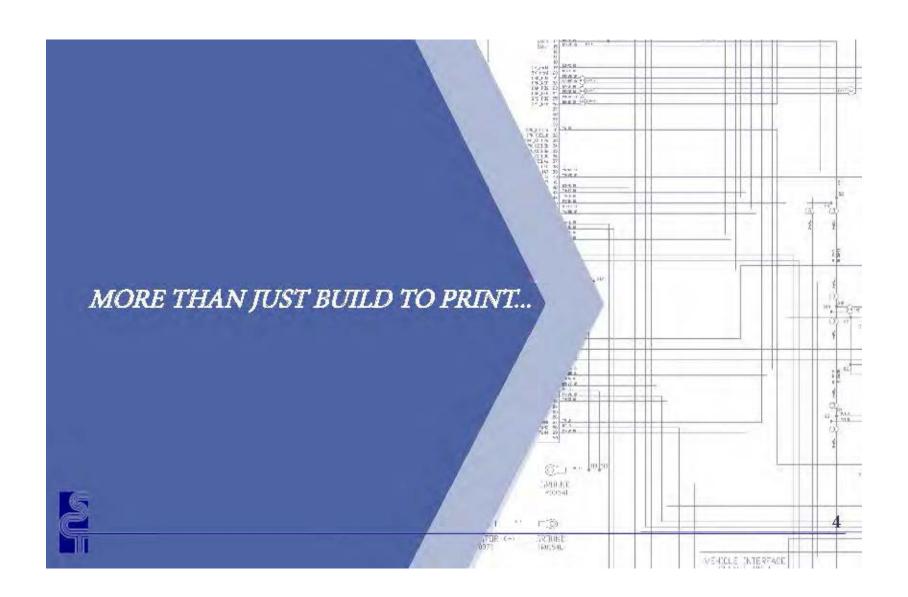
FOB Point

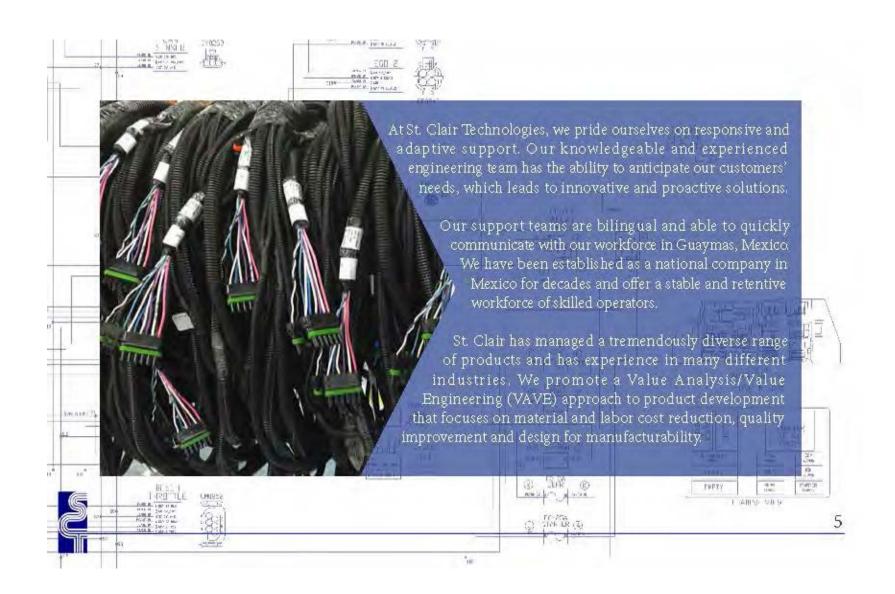
* Nogales, Arizona, USA

Manufacturing Sites

* Guaymas, Sonora, Mexico St. Clair Technologies has two manufacturing facilities in Guaymas, Sonora, Mexico, which is located 250 miles from Nogales, Arizona.











Unlimited Option Driven Content...



...makes every bus unique, just like every child it carries.









AUTOMOTIVE



St. Clair offers industrystandard exterior lamp sockets with nearly 10 years of field applications and excellent warranty performance. In the interior, we integrate circuit boards for LED ambient lighting.





We use sophisticated manufacturing systems for Insulation Displacement Connections (IDCs) that ensure highly reliable performance.







Robust performance...



...proven in the field.









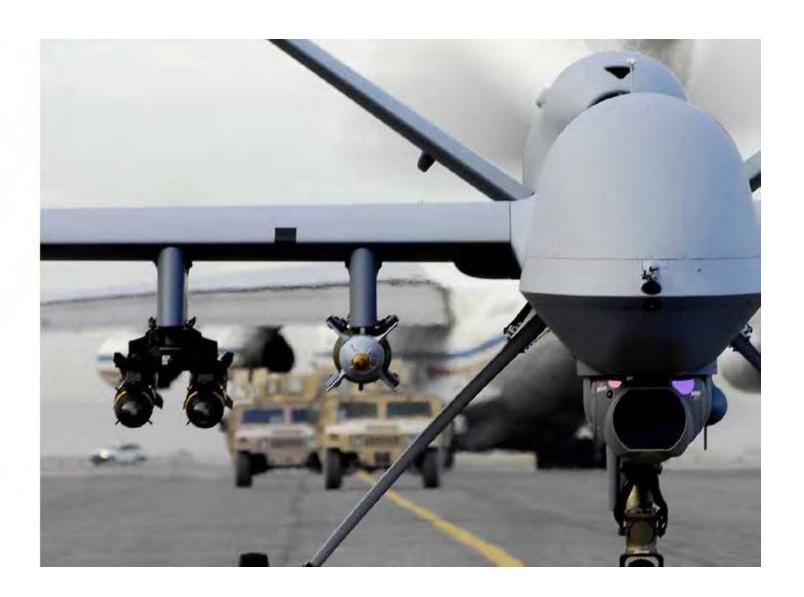


Because St. Clair's production experience spans many diverse industries, we are able to offer solutions that meet any industry's performance standards and can thrive in rugged, harsh environments. From Allison Transmissions to water craft to power equipment, we can engineer a solution for you that gets work done.



St. Clair is a preferred supplier of Allison World
Transmission production and service harnesses along
with component kits for fixes in the shop or field.
For more information and purchasing options, visit
www.stclairtech.com/products/allison.







St. Clair Technologies is an AS9100 certified supplier, ensuring that everything we produce is safe and reliable while also meeting the strict requirements of the aerospace industry. Our focus is in commercial aviation and unmanned aerial vehicles (UAVs), though we invite you to challenge our innovative capabilities.













component solutions

St. Clair Technologies designs, validates and manufactures custom component solutions to fit your unique needs.

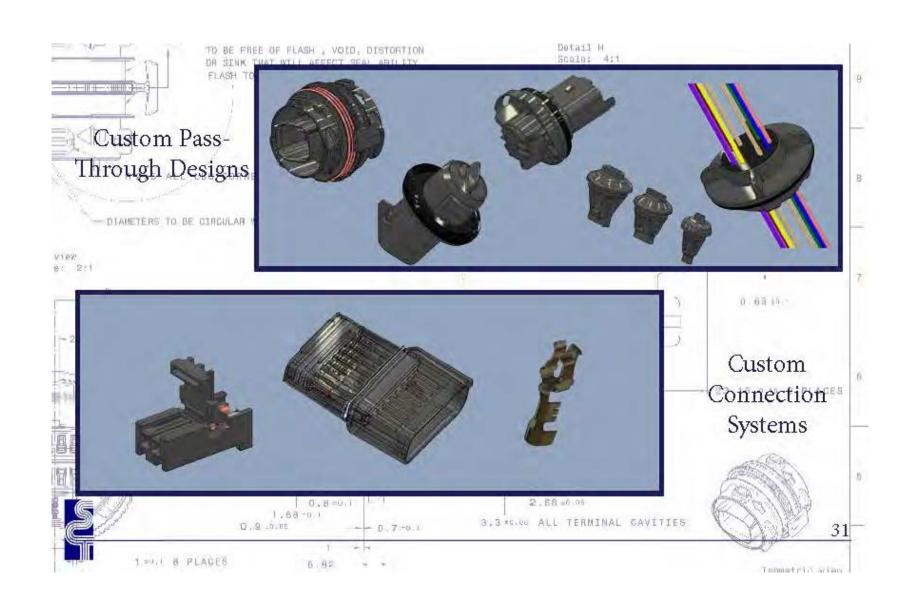
DEFECTS AND SHITTABLE FOR SEALING

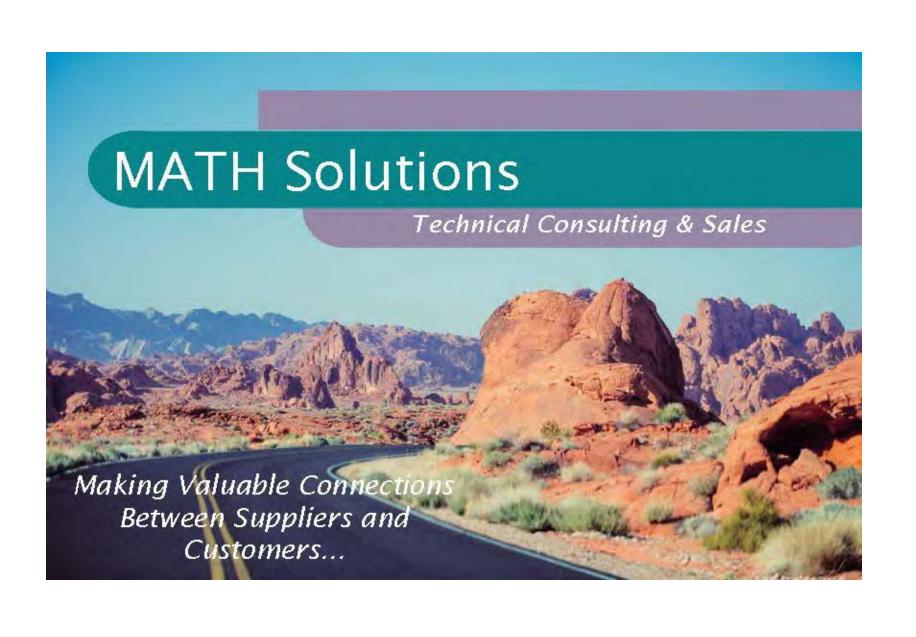
R D.7 AROUND ALL LUGS

- B. 18

THESE DIMENSTONS FOR BOTH LUG BE Industry Standard Lamp Sockets







Does your company have a Supplier Diversity Program? Like others, your company could benefit by partnering with a certified Women's Business Enterprise National Council (WBENC) Representative.

If your company has an interest in attaining government credit or customer appreciation for sourcing utilizing a Women Owned Business, please visit www.mathsolutionsllc.com. Previously the Sales and Engineering Director at St. Clair Technologies, Melissa Femia Hess is now the President and Owner of MATH Solutions, LLC., a Technical Consulting and Sales Company aimed at satisfying customer initiatives and matching customers with solutions.

MATH Solutions represents and supports St. Clair Technologies as a customer, and also works independently of St. Clair to help companies meet their minority sourcing initiatives.

For more information, please contact:

Melissa Hess
President, MATH Solutions, LLC.
[1] 248-798-3018
melissa hess@mathsolutions.llc.com



CONTACT INFORMATION

For more information, please contact:

St. Clair Technologies, Inc. 460 S. Benson Lane, Suite 7 Chandler, AZ 85224

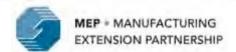
Office Telephone: [1] 602-842-7297 Email: SCTSales@stclairtech.com

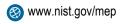
www.stclairtech.com

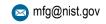


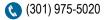
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5:00pm	ADJOURN





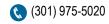








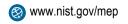




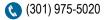
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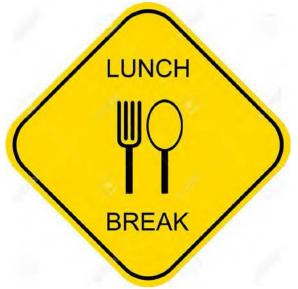








LUNCH



We plan to reconvene promptly at 1:15pm

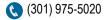


DON'T FORGET TO SIGN UP FOR YOUR ONE-ON-ONE MEETINGS AT THE REGISTRATION DESK





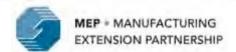






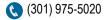
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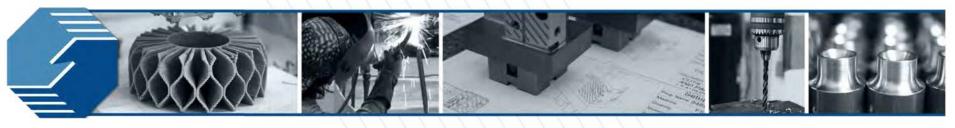
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MAKING AN IMPACT ON U.S. MANUFACTURING

MEP Assistance Opportunities and Available Resources

Buy America Transit Supply Chain Connectivity Forum Phoenix, AZ June 22, 2016

David Stieren
Technical Manager, Program Development
NIST MEP
david.stieren@nist.gov

Samm Bowman
Business Specialist, Program Development
NIST MEP
samm.bowman@nist.gov



www.nist.gov/mep

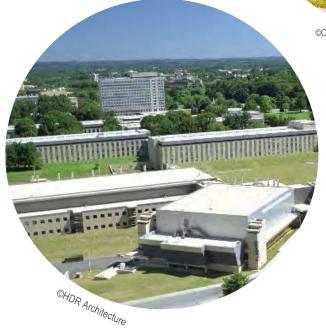
NIST Overview

- Serve as the National Metrology Institute for the U.S.
- Responsible for Nation's measurement infrastructure – focused on measurements, standards, technology
- ~ 3,000 employees
- ~ 2,700 associates, facilities users
- ~ 1,200 field staff in partner organizations

Main programs:

- -- NIST Labs
- -- Hollings Manufacturing Extension Partnership (MEP)
- -- Baldrige Performance **Excellence Program**

Gaithersburg, MD



Boulder, CO



©Christina Kiffney Photography



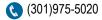
Collaborations:

JILA, JQI, HML, IBBR, ChiMaD, **NCCoE**













MEP Summary



National Network

MEP Center in all 50 U.S. states plus Puerto Rico. System-wide non-Federal staff of over 1,200 individuals in ~400 service locations assisting U.S. manufacturers. Contracting with ~2,500 3rd party service providers



Local National Connection

System of Centers providing localized service to manufacturers in each State – with National reach and resources



Partnership Model

Federal, State and Industry



MEP Strategy: Global Competitiveness and Growth

Mission to provide direct, handson tech & business assistance to domestic manufacturers to help them compete and grow



MEP Budget & Business Model

\$130M FY16 Federal Budget with Cost Share Requirements for Centers





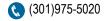
Rail Relevance for Small Mfrs

Annually serve thousands of small U.S. manufacturers; partnering with U.S. DOT – *MEP facilitating rail / transportation connections to small U.S. manufacturers*













MEP National Network

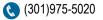




MEP + MANUFACTURING EXTENSION PARTNERSHIP









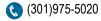


What MEP Does



- Work with small and medium size manufacturers to help them create and retain jobs, increase profits and save time and money
- Focus on meeting manufacturer's short term needs, but in context of overall company strategy.
- Reach over **29,000 manufacturing firms** and complete ~**10,000 projects** per year.
- Provide companies with trusted assistance and a consistent set of services



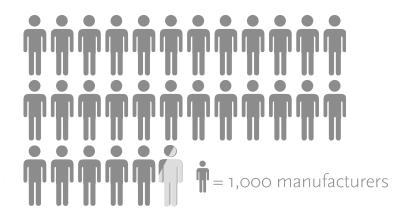






MEP Client Impacts

29,101
Manufacturers
served in FY15















49,011

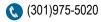
19,466

\$3.2 Billion \$1.2 Billion \$5.7 Billion \$2.3 Billion











MEP Program Initiatives











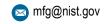


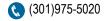
MEP's Program Initiatives

are aimed to help manufacturers identify opportunities that will accelerate and strengthen their growth and competitiveness in the global marketplace





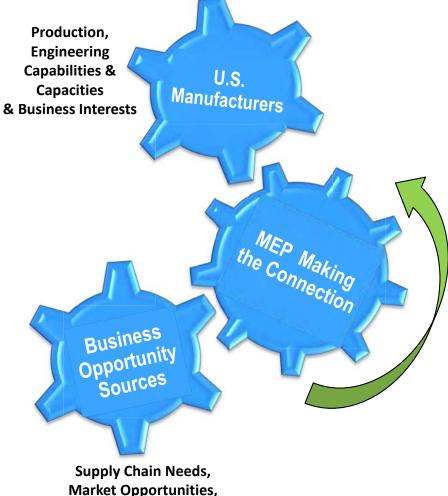








MEP: Connecting and Assisting U.S. Manufacturers



- Enhance business opportunities for U.S. manufacturers
- Connect products, capabilities, capacities of U.S. (small) manufacturers with:
 - ✓ Resources available from Nation's technology sources, including NIST Labs, other Federal Labs, NNMI Institutes
 - ✓ New market opportunities
 - ✓ Supply chain needs of OEMs, Tier 1s, gov agencies
- Provide assistance to manufacturers, including:
 - ✓ Technical manufacturing services for products, processes
 - Manufacturing Strategy, Scale-up
 - Production Optimization, (Re)tooling (Lean/Quality/Automation)
 - Engineering and Design Practices
 - Innovation and Product/Process Development
 - ✓ Supply Chain Development and Optimization
 - ✓ Market Diversification, Marketing
 - ✓ IP Management and Financing/Access to Capital
 - ✓ Workforce Development
 - ✓ Environmental Sustainability
 - ✓ Exporting



Technology Sources











MEP Supplier Scouting

- Leverages nationwide network of Supplier Scouts in MEP Centers to connect capabilities, capacities, business interests of small U.S. mfrs w/needs, business opportunities of manufacturing supply chains.
- Includes connecting small U.S. manufacturers w/procurement opportunities tied to gov. agency Buy America(n) requirements for domestic content.
- Identifies and connects domestic manufacturers with business opportunities for supply chains in the following industry sectors**:
 - passenger and freight rail cars and rail locomotives
 - railroad track and physical infrastructure
 - highway and waterborne transportation systems
 - defense weapon systems and defense support equipment
 - energy-related products
 - laboratory instruments
 - various consumer products
 - power utilities

**has included identifying small domestic manufacturers w/particular demographic attributes – such as DBE, MOSB, VOSB, WOSB, etc.



15

Participating Organizations



~200

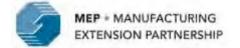
Items Scouted



70+ Identified Suppliers

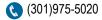


>\$160M New Business **Opportunities**













MEP Supplier Scouting and Buy America Transit **Supply Chain Connectivity** and Development

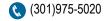
The nationwide MEP Network is actively assisting in the development of more robust domestic supply base for transit equipment in the U.S

- ✓ Interagency Agreement between DOT FTA and NIST MEP
- ✓ NIST MEP coordinate national, system-wide MEP efforts
- ✓ MEP Supplier Scouting conducted by Centers to ID manufacturers both capable of and interested in supplying needed manufactured goods
 - Include manufacturers currently serving transit industries + manufacturers from other sectors (auto, defense, aero, industrial controls / electronics, others?)
- ✓ MEP available to assist domestic manufacturers with needs and requirements to enter transit supply chains and become suppliers











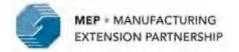


Buy America Transit Supply Chain Connectivity Next Steps

- Today's Supply Chain Connectivity Forum
 - ✓ NIST MEP to post slides for access by participants, interested entities at www.nist.gov/mep

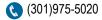
MEP Assistance to Manufacturers

- ✓ Local MEP Centers available to work with manufacturers at the local level to provide assistance in response to needs resulting from today's Forum and other needs
 - In AZ, contact Rev AZ: www.azcommerce.com/programs/rev-az
- ✓ NIST MEP available to coordinate national level MEP assistance resulting from today's Forum, such as supplier scouting, supplier development and improvement, other, ...
 - NIST MEP: www.nist.gov/mep













Resources for Passenger and Transit Rail & Components Manufacturers

Summary

Buy America Transit Supply Chain Connectivity Forum
Phoenix, AZ
June 22, 2016

Resources: Rail Supply Chain & Market Analysis



Reports from BlueGreen Alliance, Duke CGGC, AAM, ELPC provide picture of the transit & passenger rail industries

- Market history and outlook
- Opportunities and gaps in the value chain
- Practical and Policy recommendations to help grow the transit manufacturing sector

APTA, Jobs to Move America

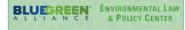
- Visibility of upcoming transit procurements
- Procurement tools to encourage greater domestic sourcing

2015 BGA/ELPC

- Overview of transit rail manufacturing today PLUS
- Detailed listing of rail and component manufacturers



Passenger Rail & Transit Rail Manufacturing in the U.S.



2015

Building on 2015 analysis



Passenger Rail & Transit Rail Manufacturing in the U.S.

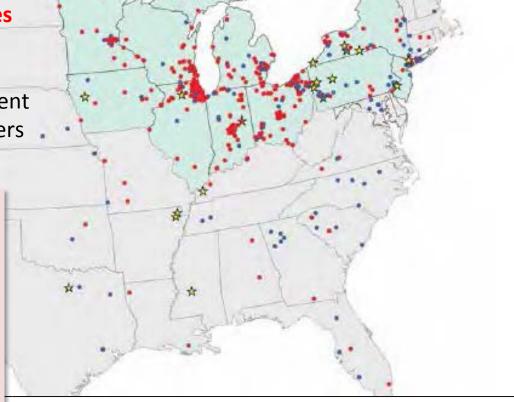
BLUEGREEN' ENVIRONMENTAL LAW
ALLIANCE & POLICY CENTER

2015 Data 750+ companies

- Assemblers
- Component
- Subcomponent manufacturers

Report includes:

- Name, manufacturing location
- Market sector, component system, and product categorization
- additional company background
- Database allows drill down by geography or sub-sector



Find it at: www.bluegreenalliance.org

What tools and data would you like to see?

In 2016 added to database:

- Deep dive in all 50 states
- Added bus assemblers & component manufacturers
- Now a total of over 2400 manufacturers

- What information do you need?
- ➤ How do you want to access this data? Reports? Online? In person presentations?
- How should BGA work with you?

How to Contact BGA

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Research Analyst

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612-466-4508

Zoe Lipman

Senior Policy Advisor

zoel@bluegreenalliance.org

202-706-6902

BlueGreen Alliance – 15 of the nation's largest labor and environmental groups committed to building a cleaner, fairer and more competitive America





RevAZ Mission

To make every Arizona manufacturer the most successful business it can be.



Service Offerings – Operational Excellence



- Continuous Improvement
- ISO Certifications
- Supply Chain
- Sourcing
- Supplier Development

- Inventory Optimization
- MRP/ERP
- Technology Planning & Roadmaps
- Technology Implementation
- Work Force



Service Offerings – Business Excellence



- Strategy Development
- Business Planning
- P&L/Cash Flow
- Financial Modeling
- ExporTech

- OD Workshops and Training
- Sales Training
- CRM Processes & Tools
- Marketing
- Diversification



RevAZ Service Delivery



RevAZ Staff

- Network of Approved Business Partners
- Experts across the MEP Network



Business can be challenging...

RevAZ can help!

Dave Garafano

DavidG@AZCommerce.com

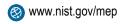
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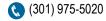
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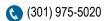


OPEN DISCUSSION







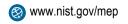




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Thank You

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