Presentation

The Future of the Connected Vehicle
CVTA – International Summit

Willow Run – Ypsilanti, MI
Connected Vehicle Research Center
Environment for Connected Vehicle Research

Shared Office & Proving Grounds Concept

Ypsilanti Township Incentives
“**SPARK** will advance the economy of the Ann Arbor Region by establishing the area as a desired place for business expansion and location...by identifying and meeting the needs of business at every stage, from those that are established to those working to successfully commercialize innovations.”

Collaboration in action at Menlo Innovations, a software company located in Ann Arbor
Clients

Automotive
- TOYOTA
- LACOSTE LOTUS
- HONDA
- HYUNDAI

Software/IT
- THOMSON REUTERS
- TRUVEN HEALTH ANALYTICS
- Google
- BARRACUDA NETWORKS

Notable Headquarters
- Domino’s Pizza
- CON-WAY FREIGHT
- TERUMO
Enabled to Convene

Private Sector

Partners

SPARK

Academic

Government
AHEAD BY A CENTURY
The Future of Automotive Technology

The case for developing a world-class test facility for Intelligent Transportation Systems and autonomous vehicles in Southeast Michigan
OPPORTUNITY
A World Class Test Facility Will Position Southeast Michigan’s Future in Connected Vehicle Technology

Significant Economic Impact
Investment: $360,400,000
Jobs: 7,800
Wages: $526,000,000

Leadership

SAFETY PILOT

Walbridge
SPARK
RACER
ytown.org
NEED FOR INFRASTRUCTURE
Off-road Testing is Required to Ensure Public Safety

- Implement precautionary testing before deploying new technology on public streets
- Confirm that the automobiles work well with other vehicles on the road
- Retain local talent and create jobs through private industry contracts
Carmakers will team up with digital partners like Google, Microsoft, Intel (maybe even Apple) to produce talking vehicles that don’t crash and get you to work on time. Companies like Ford and Microsoft already collaborate on technology that lets you bring your music and social media apps into your vehicle. Now these non-traditional partners will be working together to solve the difficult challenges of urban mobility on an overcrowded planet.

- John Lauckner, GM CTO (Forbes)
A Friend who works for a major car maker and who has access to its APIs has written an app that texts his wife and lets her know when he’s ten minutes from home. He’s considering writing an app that will tell him when his wife’s gas tank is down to one-quarter full, so he can fill it for her. He has also written an app that texts his teenaged daughter and lets her know when she is ten minutes away from having to leave wherever she is if she is to make it home before her curfew.

-“Google’s Trillion Dollar Driverless Car: The Ripple Effects” (Forbes.com)
THE CASE FOR WILLOW RUN AS A PROPOSED DEVELOPMENT AREA

Selecting a Suitable Location for an ITS Testing Facility

Willow Run’s acreage will accommodate the requirements of a world-class test facility.

The existing infrastructure for utilities can be easily utilized.

Two private entrances off US12 will allow for easy access via car, rail, and air.

Aerotropolis: Poised to conduct business and create partnerships on a global scale.

Renaissance Zone: Located in a virtually tax-free area designated for NMDCs.

Qualified for tax abatements and tax increment financing packages.

Conveniently and centrally located to key facilities:
- 15 minutes to Detroit-Metro Airport
- 10 minutes to WCC and EMU
- 20 minutes to University of Michigan & UMTRI
Walbridge’s Locations Across the Globe
Walbridge’s Market Experience

AUTOMOTIVE
Assembly & Manufacturing
Stamping | Body | Paint
Engine | Transmission | Axle
R&D | Development | Testing
Tier Suppliers | Distribution

COMMERCIAL
Cultural & Entertainment
Hospitality | Mission Critical
Office | Parking | Residential
Retail

EDUCATION
Higher Education | K – 12

WASTE/WATER
Instrumentation | Metering
Water | Wastewater

HEALTHCARE
Centers & Clinics | Hospital
Medical Office Building | Nursing
Pharmaceutical

INDUSTRIAL PROCESS
Automotive | Energy
Hazardous Materials | Agriculture
Heavy Rigging & Setting
Steel & Non-Ferrous

INTERNATIONAL
Asia | Canada | Mexico | Middle
East
South America

MANUFACTURING
Agriculture | Aviation | Defense
Materials | Pharmaceutical | Solar
Transportation | Warehousing

GOVERNMENT
Local | State | Federal
Development Experience

Raleigh Michigan Studios LLC
Motion Picture Studio
Pontiac, Michigan
Compuware Corporation
Corporate Headquarters
Detroit, Michigan
Development Experience

General Motors
Proving Grounds & Vehicle Performance Integration Center
Milford, Michigan
Development Experience

Chrysler Group LLC
Chrysler Technology Center
Auburn Hills, Michigan
Development Experience

Ford Motor Company
Research & Engineering Center
Dearborn, Michigan
Project Phasing

Phase 1
Full Construction
- Test Track
- City Scape
- Control Tower
50,000 sf Multi-purpose facility (additional 300,000 sf of expansion capabilities)

Phase 2-5
Tenant Space
- 300,000 sf of tenant space
- Flexible / Modular Space
- Multi-Tenant R&D Space
- Build-to-Suit Single Tenant
- Owner Occupied Tech Campus
Project Timeline

- **Site Plan Development / Tenant Interviews**
  - Sept 2013-Dec 2013

- **Construction of Proving Grounds & Facilities**
  - Jan 2014-Jun 2014
  - Jun 2014-Dec 2015

- **Turnover**
  - Jan 2016

- **Letter of Intent from Tenants**
Test Track/Proving Grounds Capabilities

- Simulated tunnels
- Buildings of varying scale
- Reflection areas
- Roundabouts
- Rail Crossings
- Center for virtually simulated tests
- Multi-block neighborhood and downtown street grids
- Downtown streetscapes
- Suburban streetscapes

- Realistic Traffic Infrastructure
- Proper Roadway vegetation
- Dirt, asphalt, concrete, etc.
- Weather simulation
- Introduction of variables (scooters, skateboards, etc.)
Conceptual Rendering
Contact Information

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