



Smart Factory Institute
Chattanooga

Smart Factory Institute

at Volkswagen Academy, Chattanooga, TN



**\$2,370
BILLION**

Total Output from
Manufacturing
(2019)

10.9%
GDP

Employed by
Manufacturers

12.8M

8.3%

of Workforce
(2019)

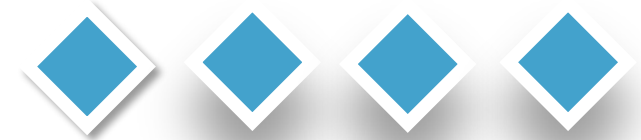
248K

of
Manufacturers in
the Nation
(2017)

\$88K

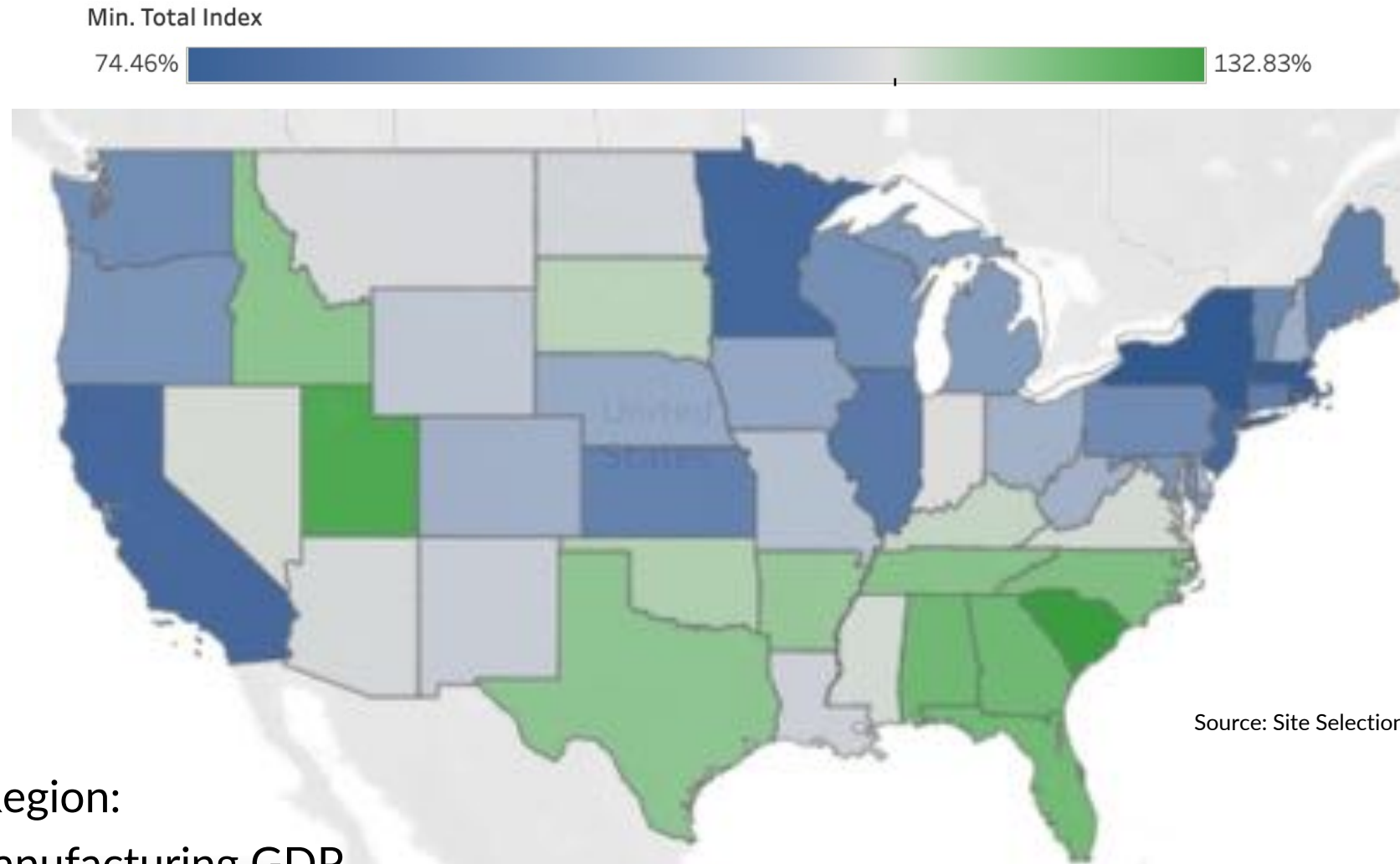
Average Annual
Compensation (2019)

U.S. Manufacturing BY THE NUMBERS



Sources: U.S. Bureau of Economic Analysis and
the U.S. Census Bureau

Best States for Manufacturing



Southeast Region:

- ▶ \$521B Manufacturing GDP
- ▶ Over 55,000 Manufacturers

Smart technology and a skilled workforce needed to meet demand



\$2.2 trillion

Added to domestic GDP by
2025 by Industry 4.0



86%

Of manufacturers believe
they are doing everything
they can to adopt smart
factory technology.



25%

Of manufacturers are
confident that their
workforce will have the
adequate skills .



73%

US Manufacturers who are
not prepared for Industry
4.0 adoption

Driving Industry 4.0 via technology solutions and workforce development



Connections

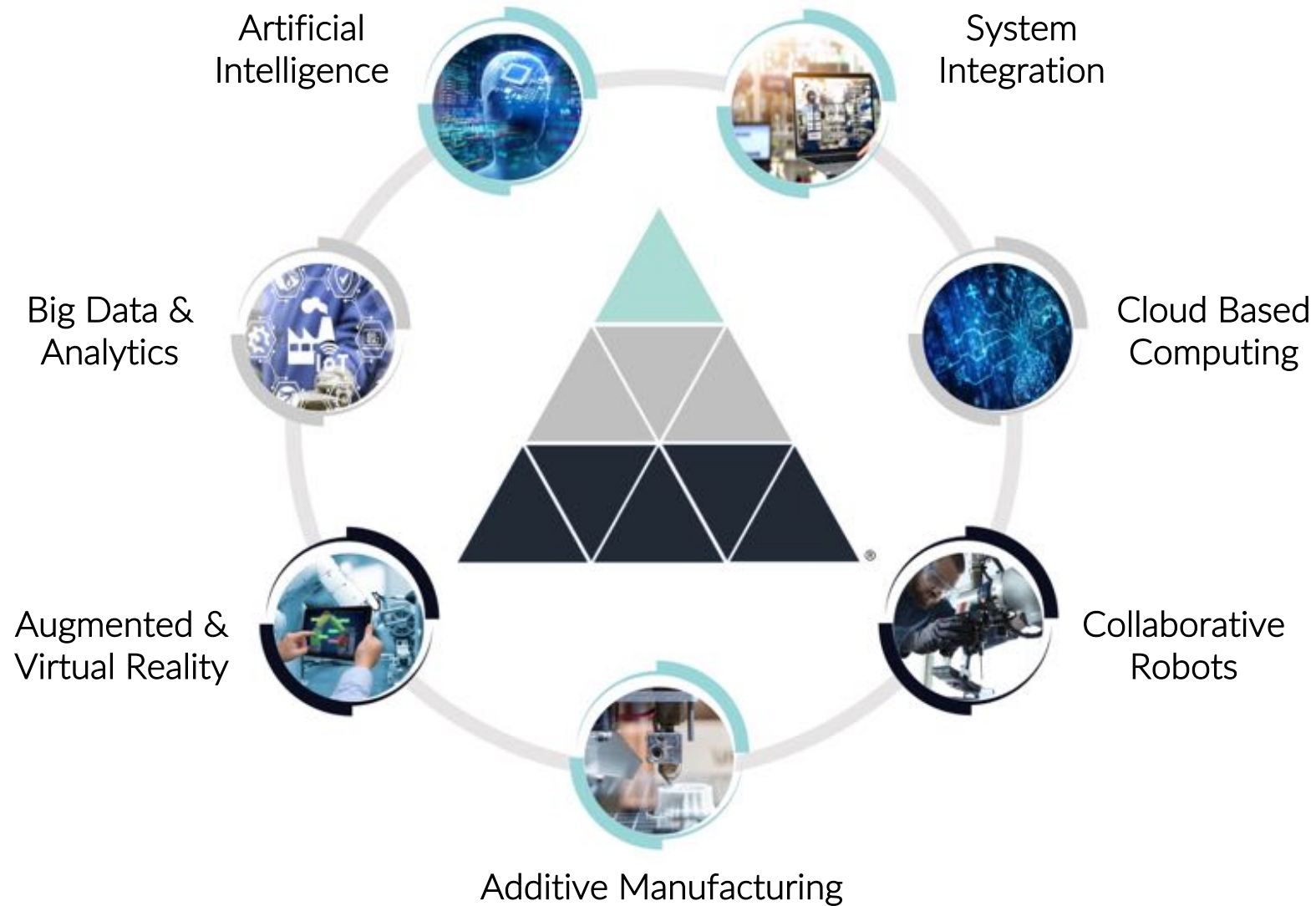


Collaborations

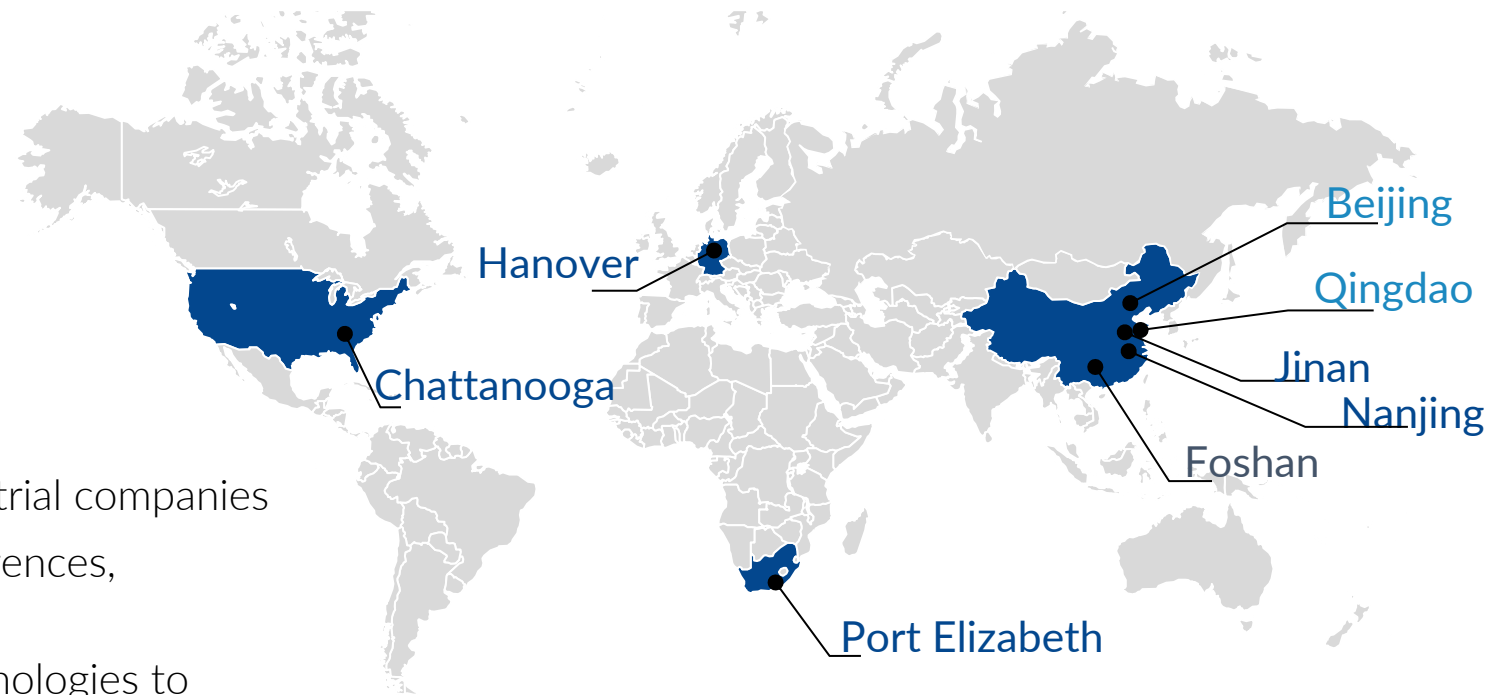


Certifications

Factory of the Future: Smart Factory



Part of the global network of Deutsche Messe Technical Academies



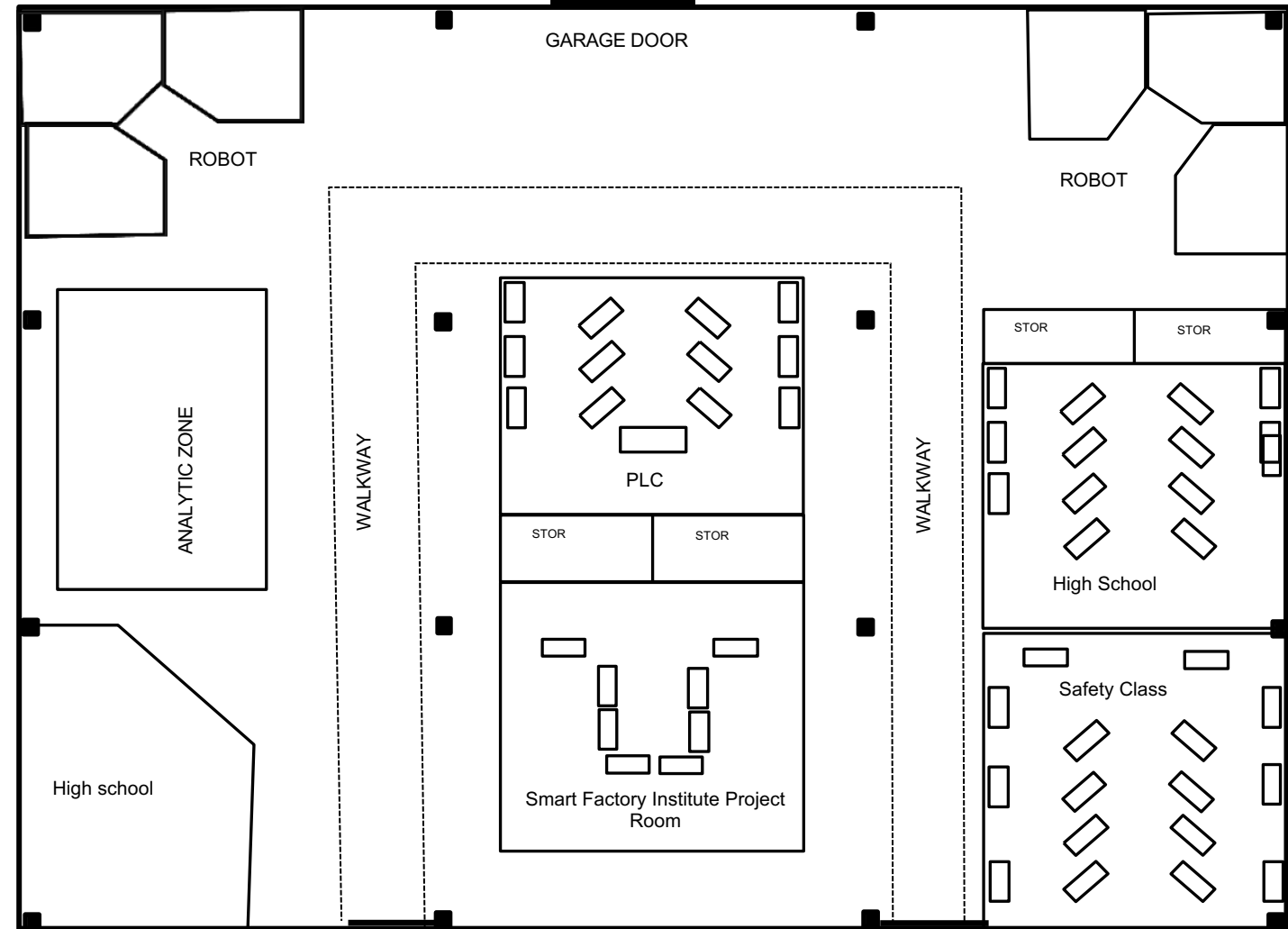
- ▶ Extensive network of leading industrial companies
- ▶ Knowledge transfer through conferences, workshops, networking events
- ▶ Demonstrations of innovative technologies to optimize production processes
- ▶ Incumbent worker training and certifications for the manufacturing community
- ▶ Partnerships with business, government agencies, educational partners and professional organizations

Volkswagen Academy provides infrastructure

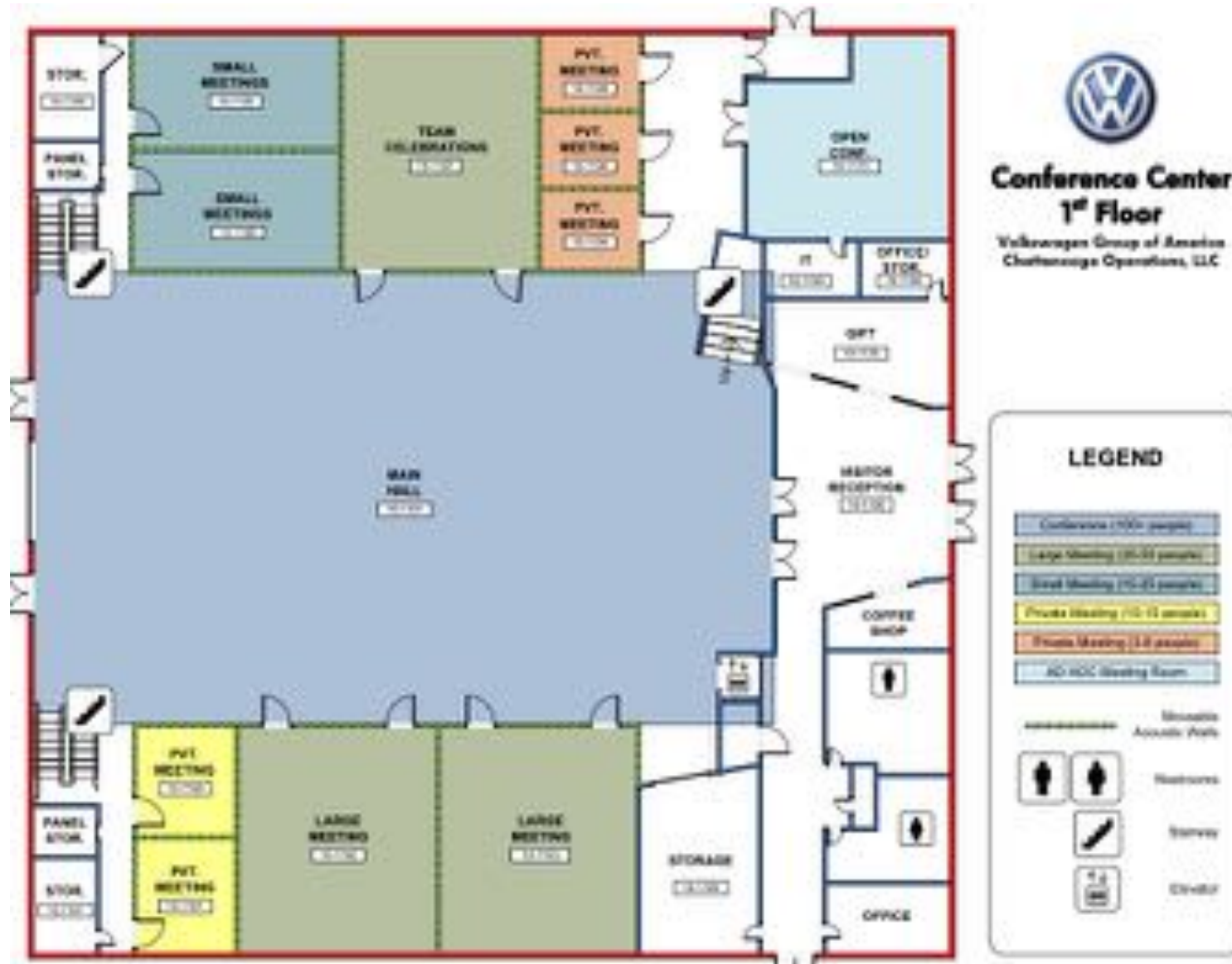


1. Conference Center
2. Apprentice Center
3. Automation Center
4. Automotive Center
5. Lean Center

Smart Factory Institute: Showcase technology in Automation Center



Opportunity for events at the VW Conference Center



University of Tennessee Chattanooga I-O Psychology Partnership

Industrial-Organizational (I-O) Psychology is...

the scientific study of how people function within work organizations. The UTC-IO program is partnering with the Smart Factory Institute to:

- Evaluate how Industry 4.0 changes manufacturing work
- Define labor and skills gaps that need to be addressed
- Develop new techniques for effectively working in manufacturing
- Develop skills assessments to determine training needs
- Develop tools to evaluate impact of SFI initiatives



Technology Partner opportunities to reach new customers

Access to Manufacturers

- Southeast Region is top contributor to manufacturing GDP at \$521K with over 55,000 manufacturers
- Major Asian, European, and U.S Automotive manufacturing within 250 mi radius
- Over \$20 billion announced investments in new EV and battery production in Region

Network

- World-wide knowledge transfer through joint conferences with Deutsche Messe
- Connection to international manufacturers
- Membership in Tennessee Manufacturers Association
- Connections to business and political communities

Exposure

- Year-round interactive exhibits to showcase technology
- Smart Factory Institute sponsored Technology to Industry Events with over 500 attendees
- Events/conferences for targeted audiences (eg. Engineer's Week and Women in Manufacturing)
- Marketing via regional and national media outlets

Sales & Training

- Use of Smart Factory Institute as a regional sales hub
- Opportunity host technology partner exclusive events at VW Academy and VW Conference Center
- Promote technology via training
- In-person and digital online training platform

Smart Factory Institute Events

- Feb 9, 2022: Smart Worker for Smart Factory
Impact of I 4.0 on the manufacturing workforce
- Mar 3, 2022: 11th Annual Global Robotics Congress
Smart Manufacturing of the Future
- Apr 7, 2022: Global EV Battery Innovations Conference
Electric Mobility and Sustainable Transportation
- Aug 11, 2022: Smart Solutions for Smart Factory Expo
Industry 4.0 Solutions Revolutionizing Manufacturing Operations
- Sept 8, 2022: 3rd Annual 5G Industry Summit
Accelerating Digitization & Networking in Production
- Oct 21, 2022: 8th Annual Peak Performance Symposium
For manufacturers, by manufacturers
- Nov 3, 2022: 2nd Annual Summit Electrical Automation
The Foundation of the Data Driven Factory
- Dec 8, 2022: The Smart Factory Workforce Conference
The Workforce of the Future





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Thank You



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