

Cincinnati USA Automotive Excellence



Fueling the Industry's Drive to

Succeed

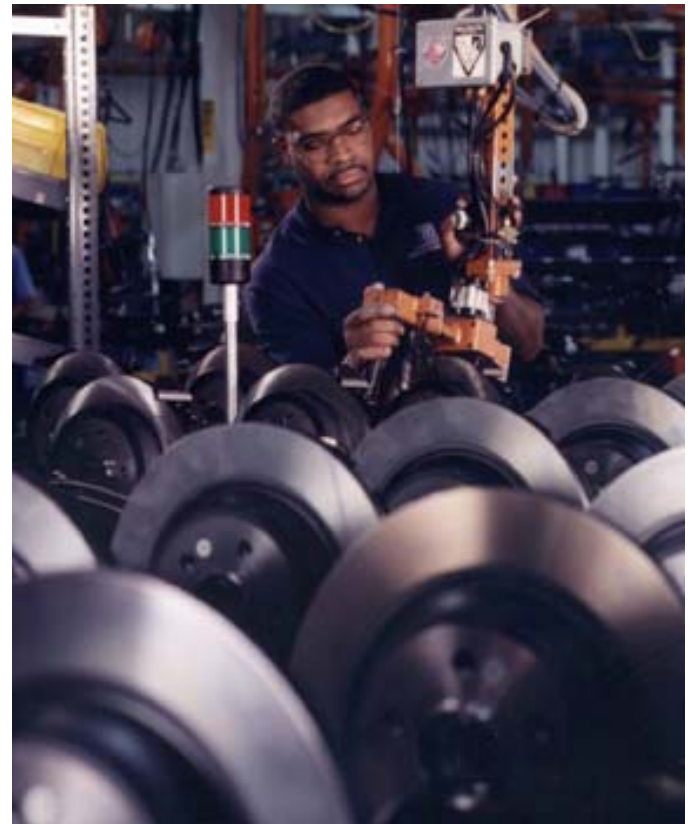
From the design studio to the production line, Cincinnati USA has become a driving force at all levels of automotive manufacturing. The three-state region surrounding Cincinnati is a leader in light vehicle production, with Ohio ranked second nationally (1.9 million vehicles annually), while Kentucky ranked fourth and Indiana fifth, in 2004.

Extensive Auto Investment

- 80 percent of North American light vehicle production takes place in Ohio or within 500 miles of its borders. Ohio has tripled its share of U.S. car production in the last decade, growing from 7.3 percent of US output in 1993 to almost 21 percent in 2003, accounting for one-fifth of the country's output.
- Ohio was also second in the nation with value-added to motor vehicles and parts during the most recently measured period, reflecting the continued investments in the state's motor vehicle industry: \$3.64 billion by 115 companies from 2001 to 2003.
- In addition to being a major force in vehicle production, Ohio is also a leader in the number of tier-1 auto parts suppliers. The state ranks second in the nation with 221 suppliers. Combined with 102 tier-1 suppliers in Indiana and 51 in Kentucky, the tristate area surrounding Cincinnati USA accounts for more than 25 percent of the tier-1 suppliers in the United States.
- Cincinnati USA is integral to the supply chain of many auto related firms, with more than 108 out of 614 of Ohio's motor vehicle industry companies located in the Cincinnati-Dayton corridor.

An Experienced Workforce

- A stable, productive workforce of 1.5 million within 50 miles.
- 95,000 skilled workers are employed in Cincinnati USA's motor vehicle, metalworking and industrial machinery, and chemical and plastics industry clusters.



Local Expertise

- TechSolve Inc. a manufacturing consulting firm that has worked with General Motors, Ford and Honda of America has become one of the driving forces behind the Smart Machine Platform Initiative (SMPI), working toward developing an “intelligent” machine tool that can know its own capabilities and design appropriate steps toward solving process problems in real time.
- The University of Cincinnati’s Leather Research Laboratory serves the auto industry with research and testing services designed to reduce cracking, fading and stress wear of leather.
- Cincinnati USA is home to Gardner Publications’ *Automotive Design and Production*, the only magazine covering the interrelationships between automotive product development and manufacturing processes.
- The ChemQuest Group Inc., an international strategic business management consulting firm headquartered in Cincinnati, is considered “best in its class” by a number of its strategic partners. They have significant expertise in the automotive industry, as well as the paints, coatings, resins, polymers, adhesives and sealants industries.
- Centrally located for easy accessibility and committed to exceptional workforce development, Cincinnati USA provides an unsurpassed location for doing business with the automotive industry in North America.





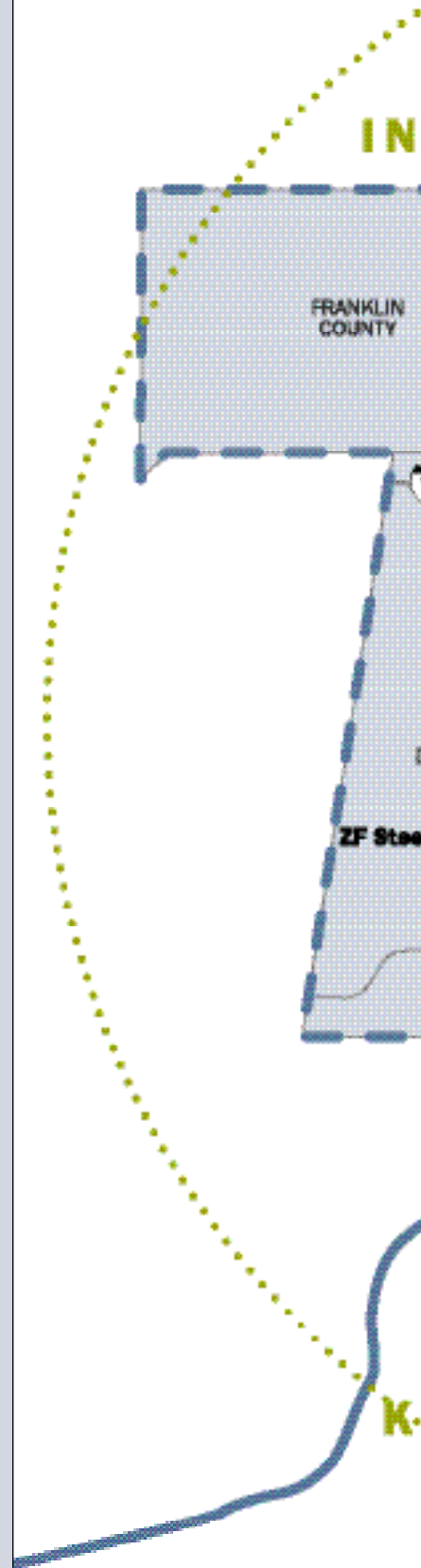
Education: Future of Industry

Engineering, research and workforce development is provided by the region’s 25 universities and colleges, community colleges and vocational schools.

- The **University of Cincinnati** is a leading resource for the automotive industry, with the College of Design, Art, Architecture and Planning (DAAP), which was named No. 1 public design school in the world by *International Design Magazine*, October 2002. DAAP is the only college in the nation where industrial design students can create “to size” auto parts in a Rapid Prototyping Center.
- UC students co-op at General Motors, Honda of America, EDS, Delphi, and firms abroad, such as Audi, Volkswagen and BMW.
- An Engineering Mechanics curriculum prepares students to design better automobiles.
- A research initiative on fuel cells and advanced fuel cell membranes is being conducted by the UC Chemical and Mechanical Engineering Department. The research is a critical part of Ohio’s Third Frontier Project, a 10-year, \$1.1 billion initiative designed to promote high-tech innovation.
- **Miami University’s School of Business** offers a degree program in Supply Chain Management.
- Other local colleges and universities serving the automotive industry include:
 - Cincinnati State Community and Technical College**
 - Gateway Community and Technical College**
 - Northern Kentucky University**
 - Sinclair Community College**
 - University of Dayton**
 - Wright State University**

Cincinnati USA Automotive Leaders

-  **A&M Soff-Seal Inc.:** rubber seal components
-  **Advics North America:** auto brake systems
-  **Amtex Inc.:** auto textiles and carpet
-  **Arvin Meritor:** national parts distribution center
-  **Auto Temp Inc.:** auto glass
-  **Balluff Inc.:** ductive sensors, switches, rotary transducers
-  **Batavia Transmissions, LLC:** CVT transmissions
-  **Clarion Manufacturing Corp. of America:** car radios, amplifiers
-  **Ford Motor Company:** transmissions
-  **Faurecia:** seat mechanisms, exhaust systems
-  **Johnson Controls:** battery covers, containers
-  **Metcut Research:** engineering and testing services
-  **Midwest Mold & Texture:** plastic molds for auto parts
-  **Mitsubishi Electric Automotive:** auto electronic components
-  **MTS Systems Corp.:** noise and vibration research
-  **Mubea:** auto springs
-  **O’Gara-Hess & Eisenhardt:** armored vehicles
-  **Pacific Manufacturing of Ohio:** metal stamping, tire valves
-  **Pioneer Industrial Components Inc.:** car radios, amplifiers
-  **Premier Manufacturing Support Services:** paint booth equipment, maintenance services
-  **Sumitomo Electric Wiring:** electric wiring harnesses
-  **Sun Manufacturing & Coatings, LLC:** custom coatings
-  **Sunnex:** adhesives
-  **Takumi Stamping:** metal stampings
-  **Three Bond International:** adhesives
-  **ThyssenKrupp Bilstein:** shock absorbers
-  **Toyota Motor Manufacturing of North America:** headquarters
-  **Usui International:** fan drives
-  **Valeo Climate Control:** climate control systems
-  **Waltex:** automated welding equipment
-  **ZF Lemforder:** control arm bushings, strut mounts
-  **ZF Sachs:** auto struts
-  **ZF Steering Systems NACAM Corp.:** universal joints; steering columns



Cincinnati USA is a key part of the supply chain for many companies in the automotive industry. More than 200 companies and organizations are located here, including those highlighted below.



CINCINNATI

- Faurecia
- Usul
- Sunnex
- Pioneer Industrial Components Inc.
- ThyssenKrupp Bilstein
- Mitsubishi Electric Automotive
- Sumitomo Electric Wiring
- Valeo Climate Control
- O'Gara-Hess & Eisenhardt
- Johnson Controls
- Advice
- Takumi Stamping
- Three Bond
- Amtex Inc.
- Pacific Manufacturing of Ohio
- Metout Research
- Ford
- MTS Systems
- A & M Soft-Seal Inc.
- Premier Manufacturing Support Services
- Midwest Mold & Texture
- Betavia Transmissions
- Auto Temp Inc.
- F Steering Systems
- NACAM Corp.
- ZF Lemforder
- Cincinnati Northern Kentucky International Airport
- Toyota Motor Manufacturing, N.A.
- ZF Sachs
- Arvin Meritor
- Mubea
- Belluff Inc.
- Clarion Manufacturing Co. of America
- Faurecia
- Waltax
- Sun Manufacturing & Coatings

Assembly Plants Surrounding Cincinnati USA

Alabama

- 1 Lincoln:** Honda (Odyssey, Pilot)
- 2 Anniston:** North American Bus Industry (Buses)
- 3 Talladega:** Crimson Fire, Inc. (Rescue Vehicles)
- 4 Vance:** DaimlerChrysler (Mercedes M Class)
- 5 Montgomery:** Hyundai (Sonata, Santa Fe)

Georgia

- 6 Doraville:** General Motors (Chevrolet Venture, Pontiac Montana)
- 7 Atlanta:** Ford (Taurus, Mercury Sable)
- 8 Fairfax:** General Motors (Chevrolet Malibu)

Illinois

- 9 Belvidere:** DaimlerChrysler (Dodge Neon)
- 10 Chicago:** Ford (Taurus, Mercury Sable)
- 11 Normal:** Mitsubishi (Eclipse, Galant, Endeavor; Chrysler Sebring; Dodge Stratus)

Indiana

- 12 Mishawaka:** AM General (Hummer, Humvee)
- 13 Fort Wayne:** General Motors (Chevrolet Silverado, GMC Sierra)
- 14 Lafayette:** Subaru of Indiana (Subaru Legacy, Baja, Tribeca, Outback; Isuzu Rodeo, Axiom)
- 15 Princeton:** Toyota (Tundra, Sequoia, Sienna)

Kentucky

- 16 Louisville:** Ford (Explorer, Explorer Sport Trac, Mercury Mountaineer)
- 17 Louisville:** Ford (Excursion, F-Super Duty Trucks)

18 Georgetown: Toyota (Camry, Solara, Avalon)

19 Bowling Green: General Motors (Chevrolet Corvette, Cadillac XLR)

Maryland

20 Baltimore: General Motors (Chevrolet Astro, GMC Safari)

Michigan

21 Connor: DaimlerChrysler (Dodge Viper)

22 Lansing: General Motors (Pontiac Grand Am)

23 Lansing: General Motors (Chevrolet Malibu, Pontiac Grand Am)

24 Lansing: General Motors (Chevrolet SSR)

25 Lansing: General Motors (Cadillac CTS, SR-X)

26 Flint: General Motors (Chevrolet Silverado HD, Kodiak; GMC Sierra HD, Top Kick; Isuzu Trucks)

27 Flat Rock: Ford (Mazda 6)

28 Hamtramck: General Motors (Cadillac Seville, Deville; Buick LeSabre; Pontiac Bonneville)

29 Lake Orion: General Motors (Buick Park Avenue, LeSabre)

30 Detroit: Ford (Commercial and Motor Home Chassis)

31 Pontiac: General Motors (Chevrolet Silverado, GMC Sierra)

32 Dearborn: Ford (Mustang)

33 Wayne: Ford (Focus)

34 Wayne: Ford (Expedition, Lincoln Navigator)

35 Wixom: Ford (Thunderbird, Lincoln Town Car, LS)

36 Detroit: DaimlerChrysler (Jeep Grand Cherokee)

37 Sterling Heights: DaimlerChrysler (Chrysler Sebring, Dodge Stratus)

38 Warren: DaimlerChrysler (Dodge Dakota, Ram)

Mississippi

39 Canton: Nissan (Titan, Altima, Infiniti, Quest, Pathfinder Armada)

Missouri

40 Kansas City: Ford (Escape, Mazda Tribute)

41 Kansas City: Ford (F-Series Trucks)

42 Wentzville: General Motors (Chevrolet Express, GMC Savana)

43 St. Louis: Ford (Explorer, Lincoln Aviator, Mercury Mountaineer)

44 St. Louis: DaimlerChrysler (Dodge Caravan, Grand Caravan, Ram, Town & Country)

North Carolina

45 Cleveland: DaimlerChrysler (Freightliner Trucks)

Ohio

46 Toledo: DaimlerChrysler (Jeep Wrangler TJ)

47 Toledo: DaimlerChrysler (Jeep Liberty)

48 Avon Lake: Ford (Escape)

49 Lorain: Ford (Econoline, Club Wagon)

50 Lordstown: General Motors (Chevrolet Cavalier, Pontiac Sunfire)

51 Alliance: MAC Trailer (Platform Trailers)

52 Marysville: Honda (Accord)

53 East Liberty: Honda (Civic, Element)

54 Moraine: General Motors (Chevrolet Trailblazer, GMC Envoy, Buick Rainier)

55 Springfield: Navistar (Medium and Heavy Trucks)

56 Chillicothe: Paccar (Kenworth Trucks)

Pennsylvania

57 Macungie: Volvo Global Trucks (Mack Heavy Duty Trucks)

South Carolina

58 Gaffney: Freightliner Custom Chassis Corp (Freightliner, Sprinter)

59 Spartanburg: BMW (Z4, X5)

Tennessee

60 Madison: Paccar (Peterbilt Trucks)

61 Spring Hill: General Motors (Saturn Ion, Saturn Vue)

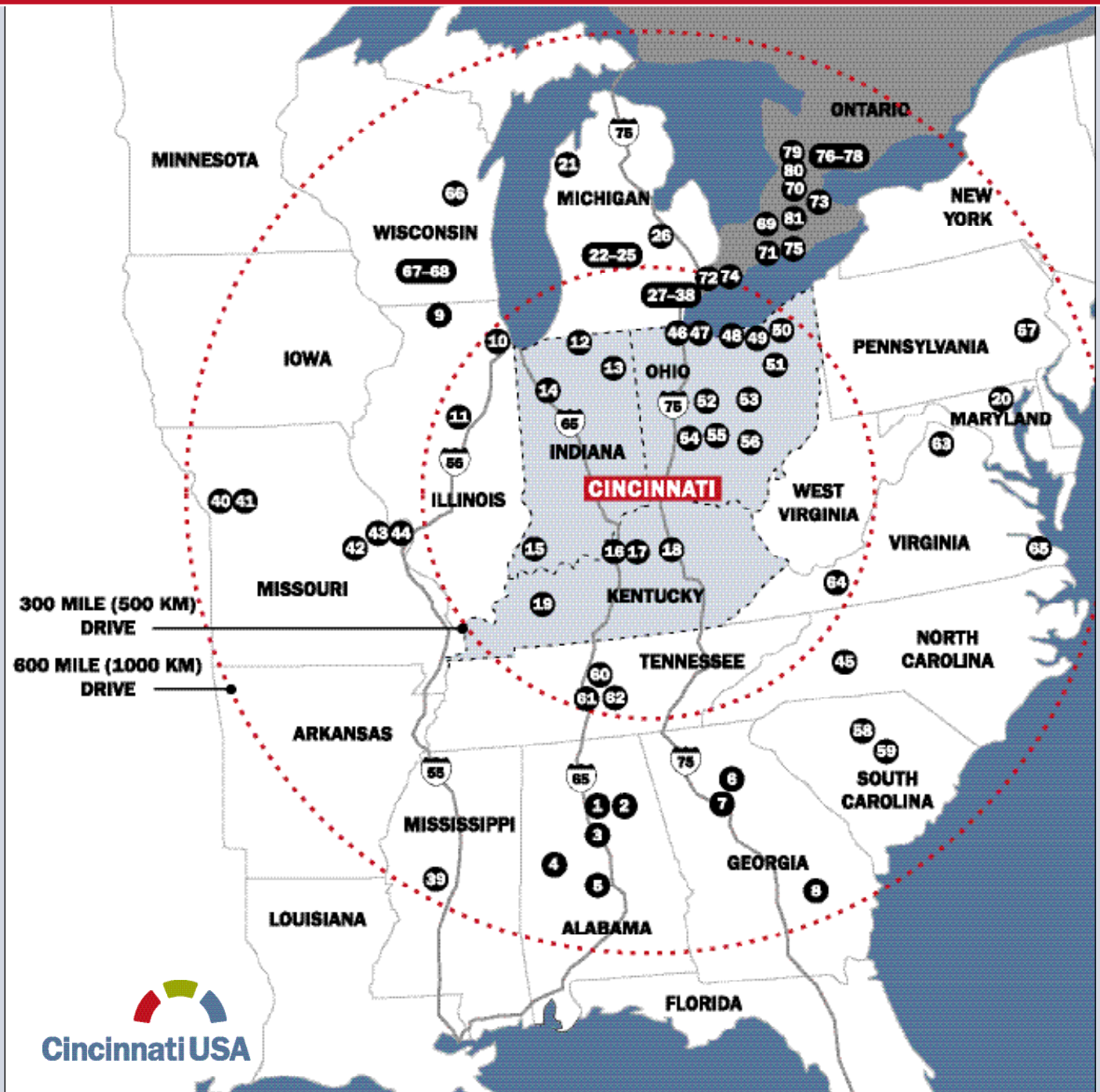
62 Smyrna: Nissan (Altima, Frontier, Xterra, Maxima)

Virginia

63 Front Royal: Bering Trucks (Class 7 and 8 Trucks)

64 Dublin: Volvo (Mack Trucks)

65 Norfolk: Ford (F-Series Trucks)



Wisconsin

66 Oshkosh: Oshkosh (Special Purpose Trucks)

67 Janesville: General Motors (Chevrolet Suburban, Tahoe; GMC Yukon/XL)

68 Janesville: General Motors (Chevrolet Tiltmaster; GMC Forward, Isuzu NPR)

Ontario (Canada)

69 Ingersoll: CAMI (Chevrolet Tracker, Equinox; Suzuki Vitara)

70 Brampton:

DaimlerChrysler (Chrysler 300M, Concorde; Dodge Intrepid)

71 St. Thomas:

DaimlerChrysler (Sterling Trucks)

72 Windsor: DaimlerChrysler (Dodge Caravan, Grand Caravan; Chrysler Town & Country, Pacifica)

73 Oakville: Ford (Freestar, Mercury Monterey)

74 Ontario Truck: Ford (F-Series Trucks)

75 St. Thomas: Ford (Ford Crown Victoria; Mercury Grand Marquis, Marauder)

76 Oshawa: General Motors (Chevrolet Monte Carlo, Impala)

77 Oshawa: General Motors (Buick Century, Regal; Pontiac Grand Prix)

78 Oshawa Truck: General Motors (Chevrolet Silverado, GMC Sierra)

79 Alliston: Honda (Acura EL; Honda Civic)

80 Alliston: Honda (Odyssey, Pilot; Acura MDX)

81 Cambridge: Toyota (Matrix, Corolla; Lexus RX 330)



Cincinnati/Northern Kentucky International Airport (CVG) was voted the No. 1 U.S. Airport, 2004.

Location and Accessibility

Cincinnati USA is a premiere location for automotive companies to do business in the United States. The region is centrally located, home to one of the world's top international airports and dedicated to educating people for automotive careers.

Cincinnati USA is within 600 miles (966 kilometers) of:

- 43 percent of the nation's population
- 44 percent of the nation's manufacturing establishments

One of the World's Top Airports

- Cincinnati/Northern Kentucky International Airport (CVG) was voted the No. 1 U.S. Airport, 2004.
- More than 635 daily departures.
- 130 non-stop destinations.
- International nonstop air service to Frankfurt, London, Paris, Montreal, Toronto, Amsterdam and Rome.
- Serves more than 22 million passengers a year.
- Courier hubs for DHL, FedEx, Airborne Express and UPS are located within 100 miles.



For additional information about locating your business in Cincinnati USA, visit: CincinnatiUSA.org. For specific questions, email us at partners@cincinnati-chamber.com.

The Cincinnati USA Partnership is a regional economic development organization representing Southwest Ohio, Southeast Indiana, and Northern Kentucky. The Partnership has helped hundreds of companies locate their businesses in Cincinnati USA.

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