WISCONSIN ECONOMIC DEVELOPMENT CORPORATION

RESEARCH AND DEVELOPMENT IN WISCONSIN

WISCONSIN ECONOMIC DEVELOPMENT CORPORATION

MISSION

"To advance and maximize opportunities in Wisconsin for businesses, communities and people to thrive in a globally competitive environment."

CATALYSTS
OF ECONOMIC GROWTH

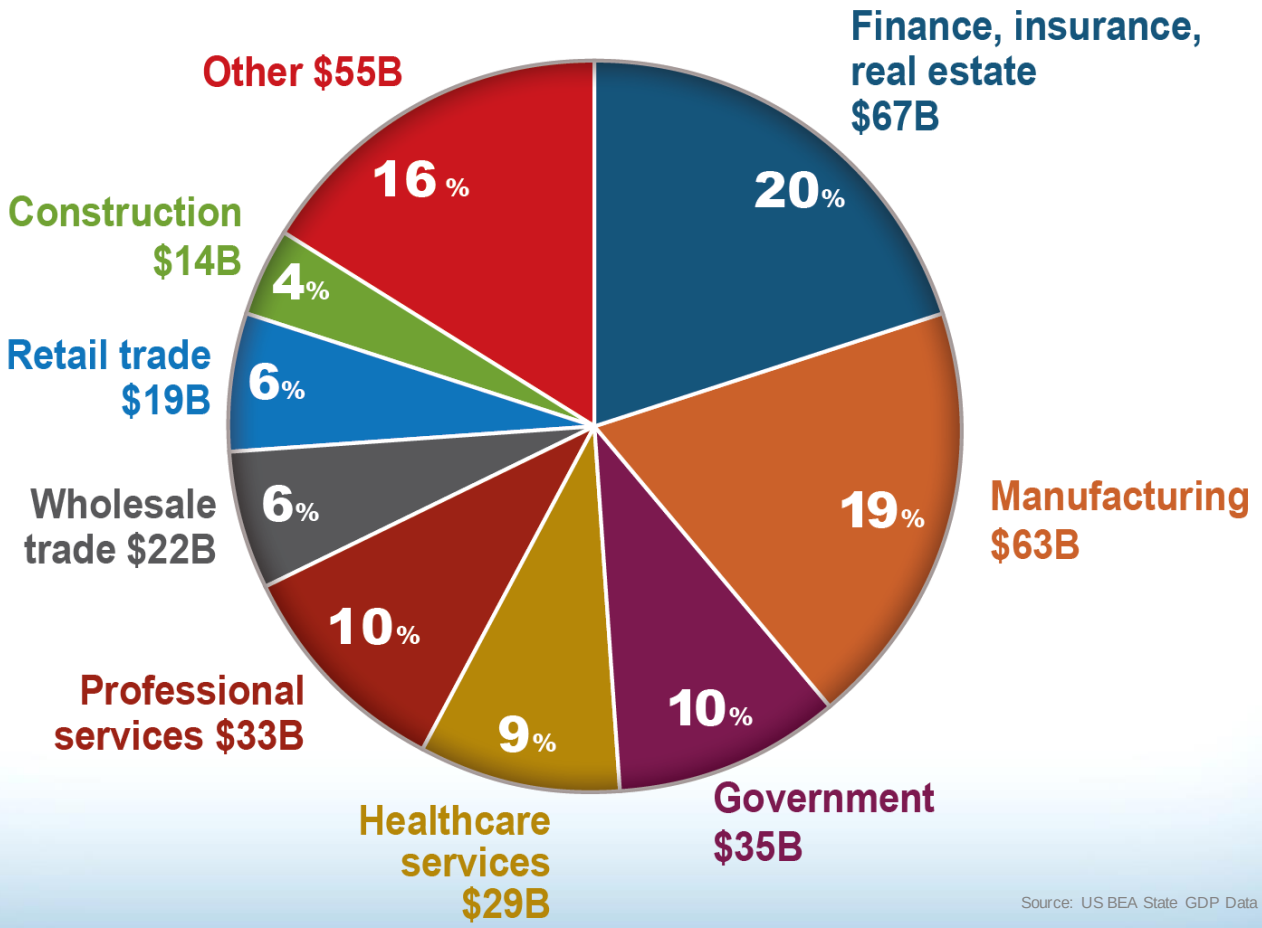
STRATEGIC PARTNERS

More than 600 local economic development partners

2018

WISCONSIN GDP

$337 BILLION



Source: US BEA State GDP Data Tables

ACADEMIC EXCELLENCE

540,000

Wisconsin Students

85,000

Degrees per Year

UNIVERSITY OF WISCONSIN SYSTEM

26

4-Year UW Campuses

2-Year UW Campuses

100 years of making futures
WISCONSIN TECHNICAL COLLEGE SYSTEM

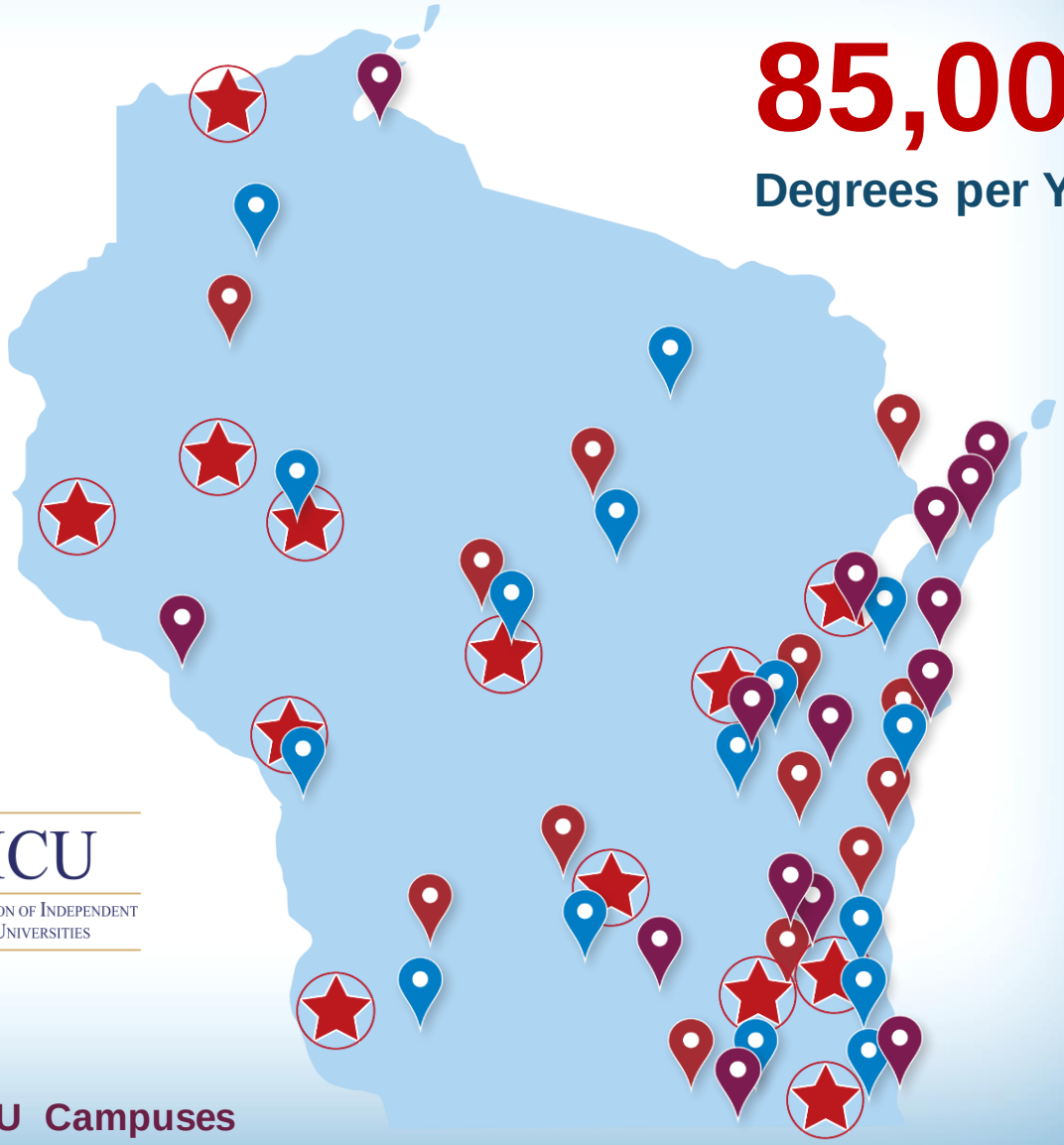
WAICU
Wisconsin Association of Independent Colleges and Universities

16

WTCS Campuses

24

WAICU Campuses



RESEARCH & DEVELOPMENT

$1.5 B

INVESTMENT

WiSys TECHNOLOGY™ FOUNDATION

UWM RESEARCH FOUNDATION

MEDICAL COLLEGE OF WISCONSIN

WARF Wisconsin Alumni Research Foundation

WISCONSIN UNIVERSITY OF WISCONSIN–MADISON

Source: National Sciences Foundation NCSES

RESEARCH AND DEVELOPMENT
$1 BILLION+
2017 RESEARCH INVESTMENT
UNIVERSITY OF WISCONSIN-MADISON
SOURCE: https://ncsesdata.nsf.gov/profiles/site?method=rankingBySource&ds=herd

WISCONSIN

KEY INDUSTRY CLUSTERS

ADVANCED
MANUFACTURING

ENERGY
POWER AND CONTROL

FOOD AND
BEVERAGE

WATER
TECHNOLOGY

BIOHEALTH

AEROSPACE

ADVANCED MANUFACTURING

9,400+
COMPANIES

475,000+
INDUSTRY JOBS

MANUFACTURERS PRODUCED

$63 BILLION
WORTH OF OUTPUT

Motor Harley-Davidson Company

Johnson Controls

KOHLER®

Mercury

Oshkosh®

Bemis®

Schreiber®

Menasha

Quad Graphics®

Plexus

Rockwell Automation

Waupaca Foundry

TRANSFORMING
MANUFACTURING

UW-STOUT moc Manufacturing Outreach Center

TPI Transformational Productivity Initiative

WISCONSIN MANUFACTURING EXTENSION PARTNERSHIP

UNIVERSITY of WISCONSIN UWMILWAUKEE | CONNECTED SYSTEMS INSTITUTE

UW-STOUT MANUFACTURING OUTREACH CENTER

DISCOVERY CENTER

WISCONSIN MANUFACTURING EXTENSION PARTNERSHIP

PROFITABLE SUSTAINABILITY INITIATIVE

TRANSFORMATIONAL PRODUCTIVITY INITIATIVE

CYBERSECURITY

TRANSFORMING
MANUFACTURING

UW-STOUT moc Manufacturing Outreach Center

TPI Transformational Productivity Initiative

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DISCOVERY CENTER

WISCONSIN MANUFACTURING EXTENSION PARTNERSHIP

PROFITABLE SUSTAINABILITY INITIATIVE

TRANSFORMATIONAL PRODUCTIVITY INITIATIVE

CYBERSECURITY

ACADEMIC COLLABORATIONS

UNIVERSITY OF WISCONSIN SYSTEM

UNIVERSITY OF WISCONSIN-MADISON

GRAINGER INSTITUTE FOR ENGINEERING

WISCONSIN INSTITUTE FOR SUSTAINABLE TECHNOLOGY

CONNECTED SYSTEMS INSTITUTE

DIVISION OF ENTREPRENEURSHIP AND ECONOMIC DEVELOPMENT

UNIVERSITY OF WISCONSIN-PLATTEVILLE

SC JOHNSON IMET CENTER

CENTER FOR SUPPLY CHAIN MANAGEMENT

NORTHWESTERN MUTUAL DATA SCIENCE INSTITUTE

MILWAUKEE SCHOOL OF ENGINEERING

ACADEMIC COLLABORATIONS

UNIVERSITY OF WISCONSIN SYSTEM

UNIVERSITY OF WISCONSIN-MADISON

GRAINGER INSTITUTE FOR ENGINEERING

WISCONSIN INSTITUTE FOR SUSTAINABLE TECHNOLOGY

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SC JOHNSON IMET CENTER

CENTER FOR SUPPLY CHAIN MANAGEMENT

NORTHWESTERN MUTUAL DATA SCIENCE INSTITUTE

MILWAUKEE SCHOOL OF ENGINEERING

ENERGY, POWER AND CONTROL

900+
COMPANIES

100K
EMPLOYED

$38B
ANNUAL SALES

ABB

BRIGGS & STRATTON

COOPER Power Systems

Danfoss

DRS Technologies
A Finmeccanica Company

EATON

GENERAC®

Johnson Controls

ORION
ENERGY PARTNERS

REXNORD

TRANE®

REGAL BELOIT

WISCONSIN'S COMPANIES
LEADING THE WAY

ENERGY — grid modernization, conservation, fossil fuels, nuclear, renewables and storage

POWER — power controls and sensors, transmission, distribution, monitoring, efficiency and quality

CONTROLS — automation and systems intelligence for industrial and building applications, energy management, SMART grid/distributed energy, wind and solar control

EPC
COLLABORATIONS

MID-WEST ENERGY RESEARCH CONSORTIUM
THE ENERGY INNOVATION CENTER
WISCONSIN ENERGY INSTITUTE
GRAINGER INSTITUTE FOR ENGINEERING
GREAT LAKES BIOENERGY RESEARCH CENTER
POWER SYSTEMS ENGINEERING RESEARCH CENTER
WISCONSIN ELECTRIC MACHINES & POWER ELECTRONICS CONSORTIUM
CONNECTED SYSTEMS INSTITUTE
IN THE ENERGY ADVANCEMENT CENTER
CENTER FOR SUSTAINABLE ELECTRICAL ENERGY SYSTEMS
CYBER-PHYSICAL ENERGY SYSTEMS LAB
GRID-CONNECTED ADVANCED POWER ELECTRONIC SYSTEMS
WISCONSIN INSTITUTE FOR SUSTAINABLE TECHNOLOGY
SUSTAINABLE AND RENEWABLE ENERGY SYSTEMS PROGRAM
MSOE'S APPLIED TECHNOLOGY CENTER
MSOE'S THERMAL SYSTEMS ENERGY LABORATORY
MARQUETTE UNIVERSITY OPUS COLLEGE OF ENGINEERING

EPC
COLLABORATIONS

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THE ENERGY INNOVATION CENTER
WISCONSIN ENERGY INSTITUTE
GRAINGER INSTITUTE FOR ENGINEERING
GREAT LAKES BIOENERGY RESEARCH CENTER
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WISCONSIN ELECTRIC MACHINES & POWER ELECTRONICS CONSORTIUM
CONNECTED SYSTEMS INSTITUTE
IN THE ENERGY ADVANCEMENT CENTER
CENTER FOR SUSTAINABLE ELECTRICAL ENERGY SYSTEMS
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SUSTAINABLE AND RENEWABLE ENERGY SYSTEMS PROGRAM
MSOE'S APPLIED TECHNOLOGY CENTER
MSOE'S THERMAL SYSTEMS ENERGY LABORATORY
MARQUETTE UNIVERSITY OPUS COLLEGE OF ENGINEERING

FOOD AND BEVERAGE

1,400
COMPANIES

93,000+
INDUSTRY JOBS

$67.8B
ANNUAL SALES

AGROPUR

Emmi

Coca-Cola

Cargill™

KERRY

KraftHeinz

MOLSON Coors

Nestlé

pepsi

SARTORI.

1939™

SARGENTO®

the Little Potato™ Company

The virtues of being small

POWERFUL
PARTNERSHIPS

FaB FOOD and BEVERAGE WISCONSIN

CENTER FOR DAIRY RESEARCH CDR UW

Wisconsin Profitable Sustainability Initiative™

FaB Wisconsin

FaBCAP

Investing in Manufacturing Communities Partnership

Profitable Sustainability Initiative

ExporTech™

Supply Chain Advantage/Accelerate

Global Food Safety Initiative Certification

ACADEMIC COLLABORATIONS

College of Agricultural & Life Sciences
UNIVERSITY OF WISCONSIN–MADISON
Growing the future

Food Research Institute
UNIVERSITY OF WISCONSIN–MADISON

UWRF
UNIVERSITY OF WISCONSIN–RIVER FALLS

CENTER FOR INTEGRATED AGRICULTURAL SYSTEMS

CENTER FOR DAIRY RESEARCH

FOOD RESEARCH INSTITUTE

MEAT SCIENCE EXTENSION

SPECIALTY MEAT DEVELOPMENT CENTER OF WISCONSIN

FOOD SCIENCE TECHNOLOGY PROGRAM

UNIVERSITY OF WISCONSIN-RIVER FALLS DAIRY RESEARCH PROGRAM

WATER TECHNOLOGY

230+
COMPANIES

23,000
EMPLOYED

$15.7B
ANNUAL SALES

AO Smith
Innovation has a name.

Badger Meter

centrisys
CENTRIFUGE SYSTEMS

HANGING GARDENS

insinkerator

Johnson Controls

KOHLER

MillerCoors

P&H

PENTAIR

REXNORD
ZURN

Rockwell Automation

ACADEMIC
COLLABORATIONS

FRESHWATER COLLABORATIVE OF WISCONSIN

SCHOOL OF FRESHWATER SCIENCES

UNIVERSITY OF WISCONSIN-MADISON

UW-STEVENS POINT

MARQUETTE UNIVERSITY

NORTHLAND COLLEGE

WISCONSIN TECHNICAL COLLEGE SYSTEM

ACADEMIC
COLLABORATIONS

WISCONSIN
UNIVERSITY OF WISCONSIN–MADISON

UNIVERSITY of WISCONSIN
UWMILWAUKEE
SCHOOL OF
FRESHWATERSCIENCES

UWSP

MARQUETTE
UNIVERSITY
College of Health Sciences

FRESHWATER COLLABORATIVE OF WISCONSIN

SCHOOL OF FRESHWATER SCIENCES

UNIVERSITY OF WISCONSIN-MADISON

UW-STEVENS POINT

MARQUETTE UNIVERSITY

NORTHLAND COLLEGE

WISCONSIN TECHNICAL COLLEGE SYSTEM

BIOHEALTH

1,800+
COMPANIES

47,000+
INDUSTRY JOBS

$914M
RESEARCH AND DEVELOPMENT

alcami™

Catalent®

COVANCE®
SOLUTIONS MADE REAL®

DOHMEN®
LIFE SCIENCE SERVICES

Epic

exact sciences

GE Healthcare

GILSON®

Phillips Medisize

Promega

Zurex
PHARMAGRA

ThermoFisher
SCIENTIFIC

ACADEMIC COLLABORATIONS

Clinical & Translational Science Institute
of Southeast Wisconsin

Marquette University
Milwaukee School of Engineering
University of Wisconsin-Milwaukee
Medical College of Wisconsin
Froedtert Health
Children's Hospital of Wisconsin
The Milwaukee Veterans' Administration
Versiti

MARSHFIELD CLINIC

WISCONSIN NETWORK FOR HEALTH RESEARCH

UWM RESEARCH FOUNDATION

WISCONSIN ALUMNI RESEARCH FOUNDATION

UNIVERSITY RESEARCH PARK

CENTER FOR PREDICTIVE COMPUTATIONAL PHENOTYPING

INSTITUTE FOR DRUG DISCOVERY

ATHLETIC PERFORMANCE RESEARCH CENTER

FORWARD BIOLABS

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UNIVERSITY RESEARCH PARK

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INSTITUTE FOR DRUG DISCOVERY

ATHLETIC PERFORMANCE RESEARCH CENTER

FORWARD BIOLABS

AEROSPACE

200+
COMPANIES

26,000+
INDUSTRY JOBS

$730M
TOTAL EXPORTS
AIRCRAFT, SPACECRAFT AND PARTS

EMTEQ

fives ultimate machines ultimate factory

GOODRICH

PLEXUS®

Astronautics Corporation of America

Gulfstream

PATRIOT AVIATION
A Patriot Aerospace Company

POINTE PRECISION™ INC

PrecisionPlus
SWISS TURNED COMPONENTS

Rockwell Collins

SNC SIERRA NEVADA CORPORATION
Space Systems

ZODIAC AEROSPACE

AEROSPACE
INDUSTRY LEADERSHIP

WISCONSIN AEROSPACE PARTNERS

SIERRA NEVADA CORPORATION
Space Systems

Aerospace and Cybersecurity
Center of Excellence

ACADEMIC
COLLABORATIONS

WISCONSIN
UNIVERSITY OF WISCONSIN–MADISON

AMIC
UNIVERSITY of WISCONSIN-MADISON

SSEC
SPACE SCIENCE AND ENGINEERING CENTER

CIMSS

ADVANCED MATERIALS INDUSTRIAL CONSORTIUM

SPACE SCIENCE AND ENGINEERING CENTER

COOPERATIVE INSTITUTE FOR METEOROLOGICAL SATELLITE STUDIES

ENVIRONMENTAL REMOTE SENSING CENTER

CENTER FOR COMPOSITE MATERIALS & SOLIDIFICATION PROCESSING LAB

LABORATORY FOR SURFACE STUDIES

WISCONSIN SPACE GRANT CONSORTIUM

SUPPLY CHAIN ADVANTAGE PROGRAM

FOREST PRODUCTS

64,000+
INDUSTRY JOBS

WISCONSIN RANKS
#1
EMPLOYMENT CONCENTRATION IN PAPER MANUFACTURING

$1.4B
TOTAL PRODUCT EXPORTS

WholeTrees®
STRUCTURES wholetrees.com

WholeTrees®
STRUCTURES wholetrees.com
DAWES
DAWES

ACADEMIC
COLLABORATIONS

NATIONAL FOREST

PRODUCTS LABORATORY

WISCONSIN INSTITUTE FOR SUSTAINABLE TECHNOLOGY

LAKE SUPERIOR RESEARCH INSTITUTE –

UNIVERSITY OF WISCONSIN-SUPERIOR

WOOD TECHNOLOGY CENTER OF EXCELLENCE

ACADEMIC
COLLABORATIONS

NATIONAL FOREST

PRODUCTS LABORATORY

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LAKE SUPERIOR RESEARCH INSTITUTE –

UNIVERSITY OF WISCONSIN-SUPERIOR

WOOD TECHNOLOGY CENTER OF EXCELLENCE

ENTREPRENEURSHIP & INNOVATION IN WISCONSIN®

ENTREPRENEURSHIP

STRATEGY

INNOVATION

ENTREPRENEURS

COMPANIES

ECOSYSTEM

ENTREPRENEURSHIP

PROGRAMS

LOANS

ACCELERATORS

SEED FUNDS

SBIR MATCH

BUSINESS PLANNING

2018 RESULTS

QUALIFIED NEW BUSINESS VENTURE PROGRAM

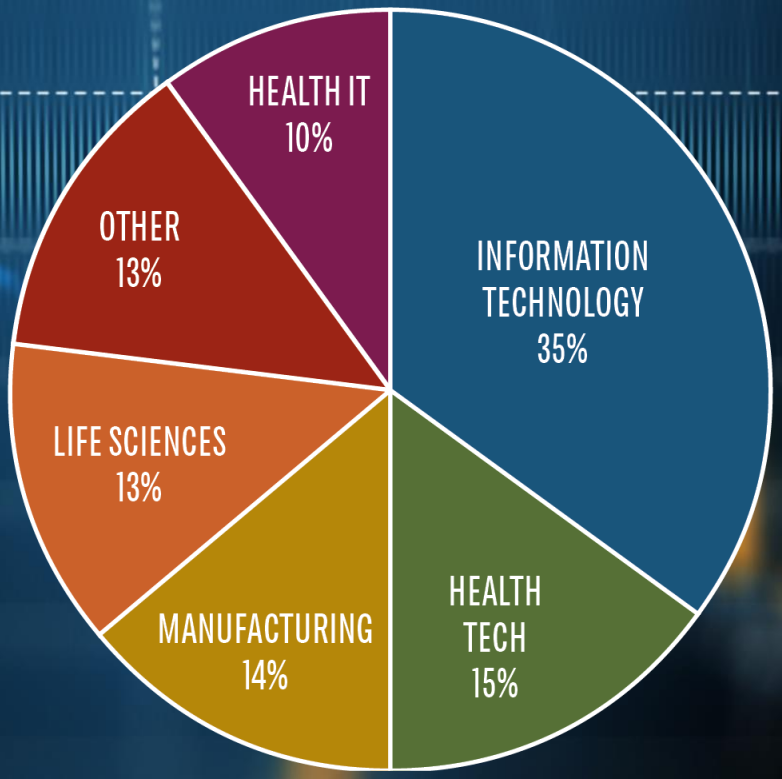
238
CERTIFIED
COMPANIES

$334.6
MILLION

2018 RESULTS

QUALIFIED NEW BUSINESS VENTURE PROGRAM

NUMBER OF CERTIFIED COMPANIES



Source: Reporting from QNBV-certified companies

2018 METRICS

E&I PROGRAMS

320
Businesses Assisted

500*
Businesses Reporting

3496
Total Jobs

$178M
Total Payroll

$550M
New Capital Generation

WISCONSIN ECONOMIC DEVELOPMENT CORPORATION

Thank you

Aaron Hagar
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Entrepreneurship and Innovation
And Sector Strategy Development

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