Company Overview

eering

that rocks ... !

icroFuzzy combine experience with latest technologies and creativity.

For solutions that rock!

MicroFuzzy

Between Geniu
and Insa

.. there is just a thin line. We at MicroFuzzy try to stay
to develop solutions for our customers' de

...ng for
miracles ... ?

...on't have a magic stick - but a highly skilled team of
...in Europe and Asia to make things happen!

MicroFuzzy

Out of the box
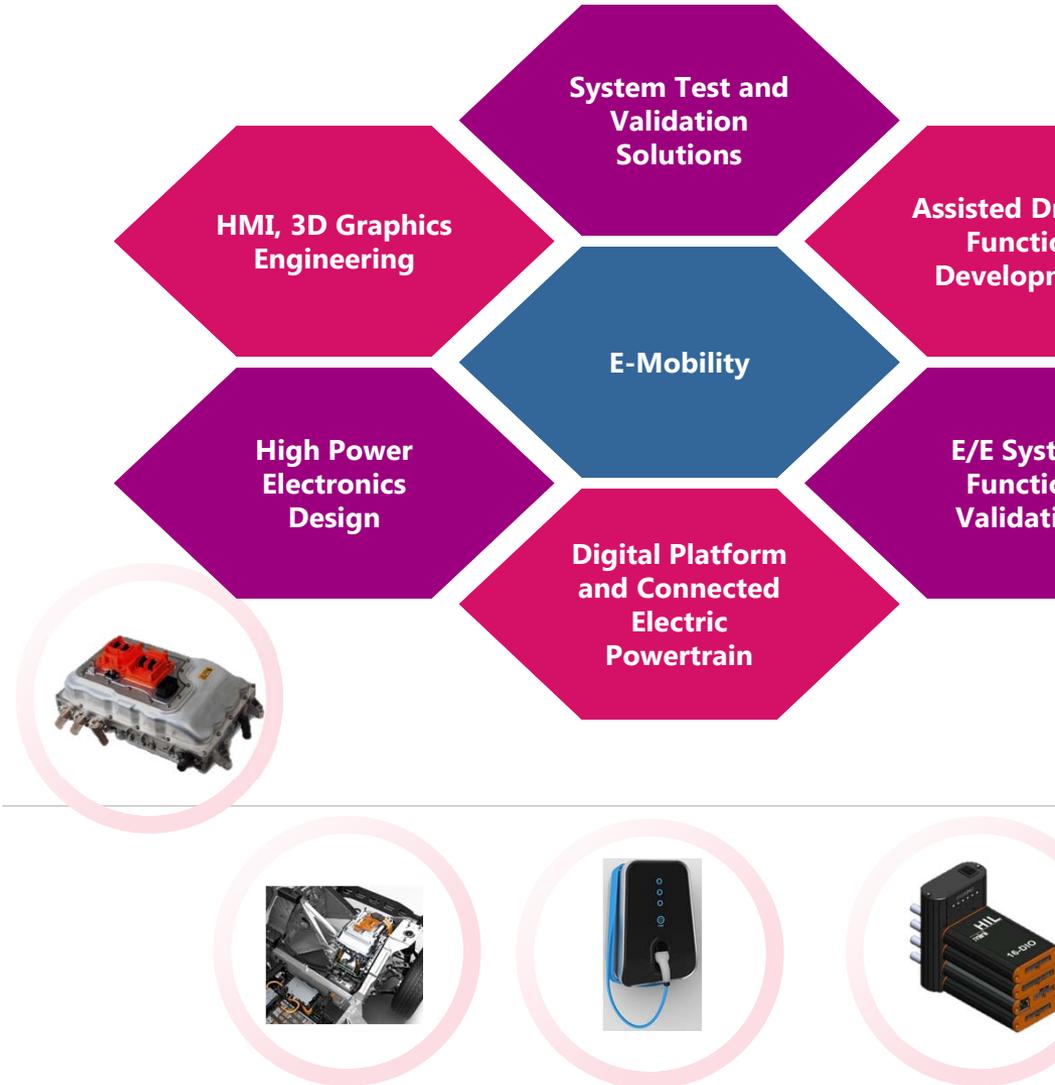
You need innovative solutions? That's why we
think out of the box.

Ve Are

0+ years of Powertrain and HMI
eering experience

staff in 5 continents (170+ in Electric
train, 50 Engineers in Infotainment)

Munich, Germany and Offices in US,
pan, India, Thailand, Egypt, Brazil

C 27001:2005 and DIN EN ISO
2008 Certification

gic Partnership with *KPIT*

ering HQ and "Right-shoring"

Germany

our Customers:

neers (Electric Powertrain)

T Infrastructure, Certified BMW Project Office

GmbH
e 38
ch

HQ: MUNICH
BRANCH OFFICE: REGENSBURG

MicroFuzzy

CAIRO
AUTOSAR

BANGKOK
Test and va
services, OI

TRIVANDRUM
Infotainment,
Connectivity

SAO PAULO
BMW Innovar
Programs

TÜV NORD
TÜV NORD CERT GmbH
ISO/IEC 27001

TÜV NORD
TÜV NORD CERT GmbH
DIN EN ISO 9001

erTec, Bangkok

2005

(+Powertrain)

tral Bangkok

er for an Asian OEMs, Thai Government

ering Hub of MicroFuzzy

Ltd.
/2 Soi Sukhumvit 22
toey
THAILAND

THIS IS TO CERTIFY THAT

ThaiGerTec

THAIGERTEC CO,.LTD.

HAS RECEIVED THE PRIME MINISTERS'S EXPORT AWARD 2016

BEST SERVICE (DIGITAL)

GENERAL PRAYUT CHAN-0- CHA
PRIME MINISTER OF THE KINGDOM OF THAILAND

THAILAND BOARD OF INVESTMENT

Botschaft der Bundes Bangkok

TEBA — Thai European Business Association Founder member of European Busin (EBO)

GTCC AHK — Deutsch–Thailändische Handelskammer German-Thai Chamber of Commerce

Electric Vehicle Association of

TESA — Thai Embedded Systems Association
Developer's Network for Electronic Design Industry
For Developers, By Developers

TÜV NORD — ISO/IEC 27001

TÜV NORD — DIN EN ISO 9001

uzzy Leadership

er Lederle	**Herr Markus Waidelich**	**Herr Oliver Mangold**	**Herr Vijay Prasa**
r	CEO, Co-Founder	CEO	Business Head
s of Experience in	Over 20+ years of experience in	Over 15+ years of R&D	Over 17+ years of D
ngineering and	Automotive and Semiconductor	Engineering Services experience	Engineering Service
ransmission Control	Industry with very strong	in Automotive Industry both in	in Automotive Indu
orid Systems	Hardware Design Engineering	Sales and Operations	and Operations
	experience		

Fuzzy Leadership

...ler
...ember, Advisor

- ...1: University of Mannheim, Diploma-Kaufmann
- ...8: Droege and Company Consulting, Düsseldorf
- ...9: Various positions at BMW AG
- ...1: BMW M GmbH, Vorsitzender der Geschäftsführung
- ...5: Senior Vice President Special Projects ASIA

Tero Sarkkinen
Head of Infotainment and ADAS Solutions

- **Founder of Rightware**, a company renowned for its ... solution now shipping in over **25 million cars** global...
- 18 years of experience in real-time computer graphic...
- **Founder of Basemark**, a company dedicated in grap... performance and power consumption
- **Ex-CEO of Futuremark**
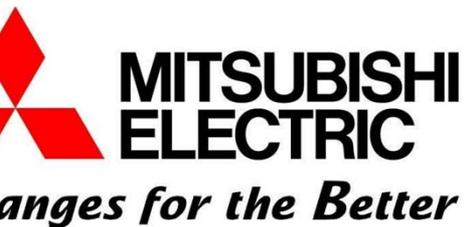- M.Sc. from Helsinki School of Economics, eMBA cours... Stanford Business School
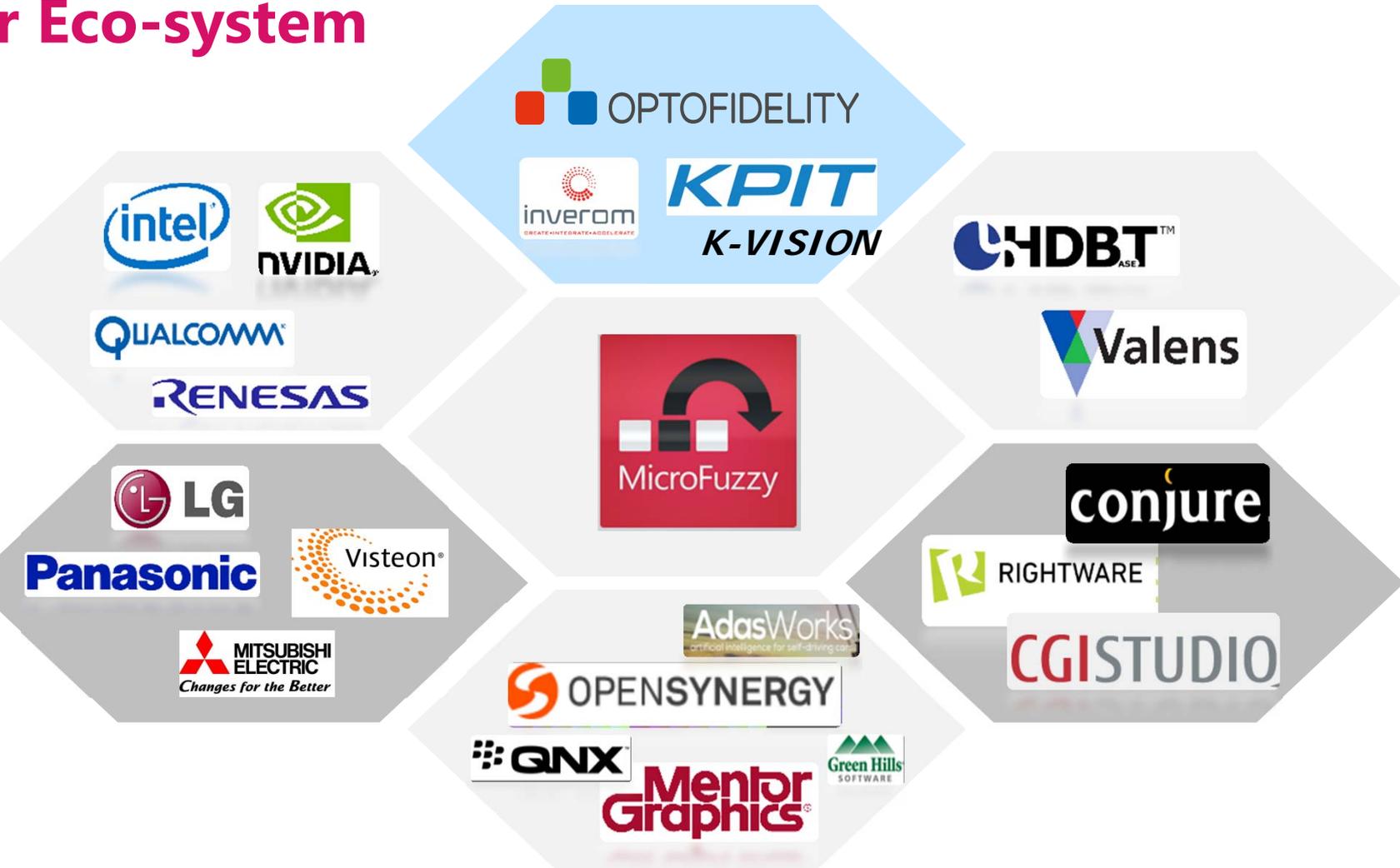
ce Customers

r Eco-system

...ineering Experience on ... Powertrain"

...irements (QM, Safety

...on, Requirements
...ing Co.req, ISO26262
...(Supplier management)

...on and FuSi
...E-Drive

...M, DC-DC, CSF, TORQUE,
...harging,

...for Powertrain Generic Digital

...DIGITAL Platform for Powertrain
..., MENTOR and built by

**ISO 26262**

Complete Functional Safe...
C(D)" implementation and...
GEN5 and Series Developm...
components

Component Level
HiL Testing (Software Integratio...
Acceptance Tests, Software Unit...
Function Testing)

High Voltage, Tests, Chargi...
up and running the complete...
Integration Testing)

PROAN
WE POWER MOBILITY.

MicroFuzzy

AUTOSAR
SWC
BSW

Vehicle Testing :
Manging Dynamic HiL's, Regression Tests
Responsible for Co-ordination of tests in the
Vehicle (Summer, Winter Trips)
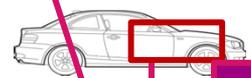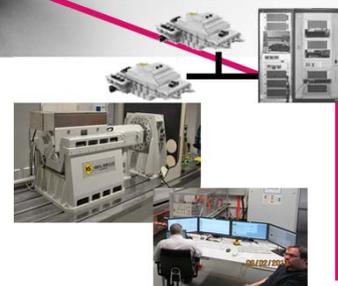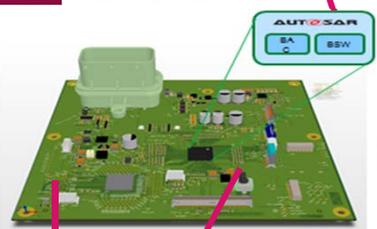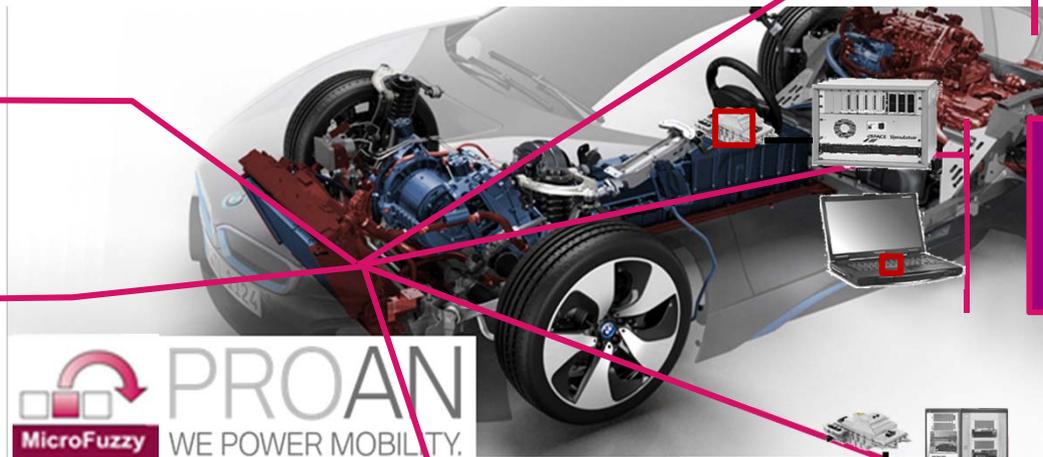
uzzy Products

kout Box

intelligent Switch Box" is a Breakout Box designed to support integration tests, and streamline the debugging phase of ECUs.
ely controlled via ECU-test/equivalent to regulate power. Includes a 106
to connect/open bus connection between ECU's and RestBus simulation tools

slot

ary Low Cost *Hardware-in-Loop* system for Electric Powertrain Systems and is developed with a purpose that every software
ware developer is provided with a small, flexible and affordable simulation hardware to test and verify ECUs. The new hardware-
ystem will be able to execute almost all tests and simulations which are currently implemented on big HIL systems lik Dspace.
ses a multi-core platform and is built with an OPEN architecture that can be customized easily to suit every OEM needs

arger for ASIA Market

ost 22KW DC Wall Box Charger for the ASIAN Market with the first prototype to be released in April 2017
e AC Voltage (EU, US, China, Japan Range) with Output : 250-900V DC, 55A, 22KW@400V
Software Updates, LTE/Wi-Fi Communication with e-Payment model

- Traceability tool for development data
- Over 100+ licenses sold to BMW Group

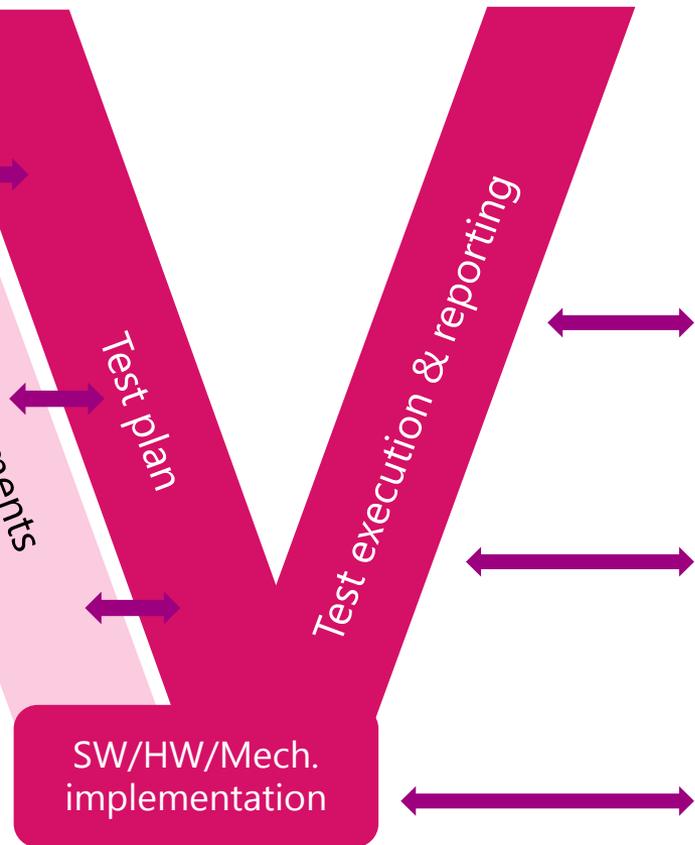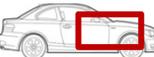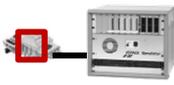**BUS FISH:** A innovative concept for an ODX-based reprogramming and diagnostic tool
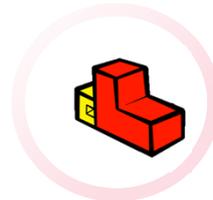
CANIBESSA – BUS Network Display
- Display all signals and ist values on the CAN or Flex Ray Network
- Simulate CAN & Flex-Ray network

Validation

Testing activities	Test environment		Level
Vehicle dynamic tests	Vehicle		Vehicle P...
Customer acceptance tests	HiL		Vehicle P...
Vehicle tests	Vehicle		E-Powert...
System Integration tests: High voltage tests Dynamic tests	System Integration Dynamic test bench		E-Powert...
System Integration tests – High voltage	Pre-Integration test bench		E-Powert...
System Integration tests - Low voltage	System Integration HiL		E-Powert...
Component validation Functional test Environmental tests	HiL, HV-Lab Computer		Compone...
SW Integration test	Micro HiL iSB14		SW
SW Unit and Module testing	Computer		SW

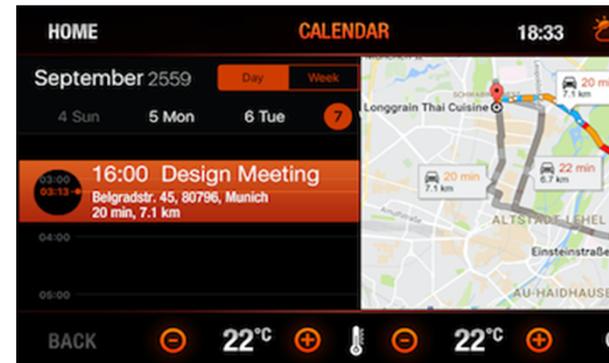Test execution & reporting

Test plan

SW/HW/Mech. implementation

pertise

experienced HMI engineers to work with head unit,
ment cluster, HUD, RSE and other HMI projects

leted numerous successful Automotive, Industrial, and
e **production series HMI projects** involving
opment, integration and testing

g experience in **integrating the complete head unit**
are stack
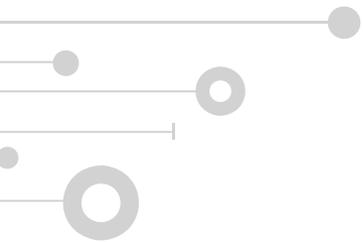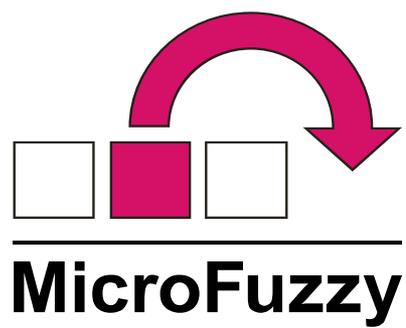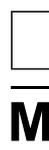
Strategic Partnership

KPIT

- xpand European Engineering ootprint

- rengthening   E-Powertrain ractice

- omplimentary Customer and echnology base

MicroFuzzy

- MicroFuzzy looking at increasing g customer base

- Additional Competencies for grow

- Complimentary Customers and Technologies

Mutual respect for each other's work and culture

MicroFuzzy Come together to form a strategic Partners

dly strengthen each others strategic customer relationships

d Global E-Powertrain Practice and Leadership

rove the ability to scale Global Engineering Footprint for customers

inue focus, agility and creativity to increase value for customers

ease investments to create differentiators and scaling up of MicroF
folio

omers want more products and solutions - not pure play services

Incorporated in 1990

Publically traded company in India since 2001

~ USD Half Billion in size

11,000+ Employees

Development Cente... in India, US, Germa... and Brazil

34 global offices across countries

6% of revenue invested in R&D, 6... Patents

Automotive, Energy- Utilities and Life Sciences

echnology Company izing in Select Verticals

KPIT

e been relentless in our building efforts

10 years of sustained growth @ 32% CAGR

USD revenues
$500 Million FY'15

Employees worldwide
10,000+ FY'15

Global reach

10 Development centers
34 Offices in **16** Countries

Employees represent
25 Nations

Relevant in our focused areas

75 Automotive OEMs & Tier1s
50+ Manufacturing companies as long standing clients

Global organizations bene
our services and technolog
150+

Investing in Technology

50+ Patents filed in less than 5 years

6% of Revenues invested in R&D of Automotive Business

Winner
Innovat
Awards
years

Solutions

Embedded software across subsystems

Body Electronics

Chassis , Safety and Driver Assistance

Functional Safety ISO 26262

Infotainment

Powertrain

Vehicle Diagnostics

ed 1500+ programs to make embedded e across automotive subsystems

ANALYTICS
OR SUCCESS

Products

Connectivity	Telematics	Diag
KIVI In-Vehicle Infotainment **KONNECT**	**On-Bus ITS** Intelligent Transport System	In2Soft Dia

Standardization Platforms

K-SAR AUTOSAR Suite	**medini analyze** Functional Safety Tool Chain

Green

RevoLo hybrid solution for everyone

Certifications

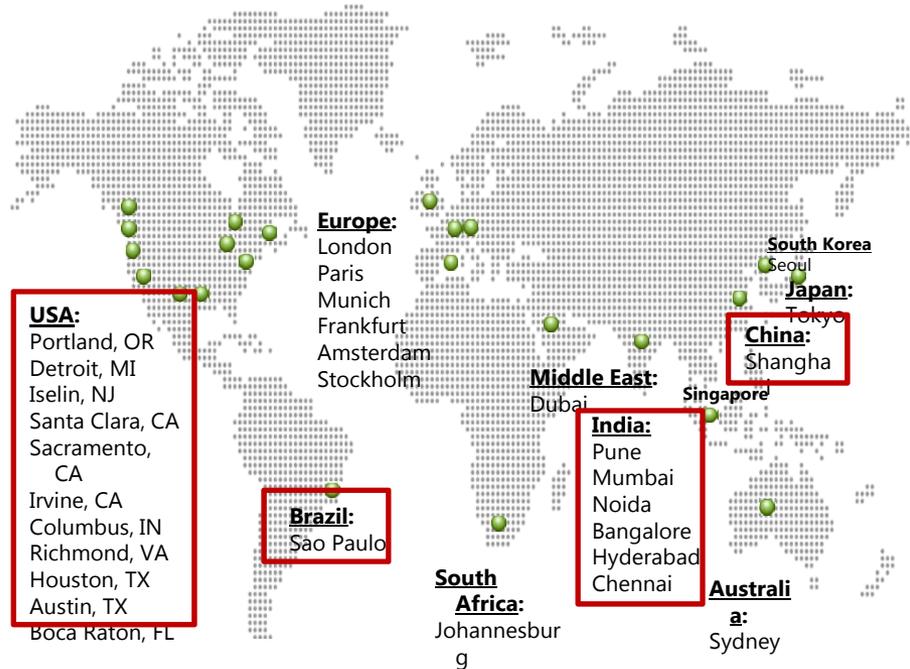| automotive SPICE Level 5 certified	CMMi Level 5	ISO 9001: 2008 CERTIFIED QUALITY MANAGEMENT SYSTEM

Specialists in Product Engineering & one of **Worlds' Leading Automotive softwa**

e reached a broad footprint globally

Manufacturers

Our Worldwide Presence

Tier1

USA:
Portland, OR
Detroit, MI
Iselin, NJ
Santa Clara, CA
Sacramento, CA
Irvine, CA
Columbus, IN
Richmond, VA
Houston, TX
Austin, TX
Boca Raton, FL

Europe:
London
Paris
Munich
Frankfurt
Amsterdam
Stockholm

South Korea
Seoul

Japan:
Tokyo

China:
Shangha

Middle East:
Dubai

Singapore

Brazil:
Sao Paulo

India:
Pune
Mumbai
Noida
Bangalore
Hyderabad
Chennai

South Africa:
Johannesburg

Australia:
Sydney

Danfoss SIEMENS KOSTA
DELPHI
ALPS
EMERSON. DE
THERMODISC
YAZAKI Continent
GENTEX Webasto Autoliv
JOHNSON BEHR
CONTROLS
MITSUBISHI Air International
ELECTRIC Thermal Systems
Changes for the Better
TRW //////ALPI
Valeo axeon
LEAR
CORPORAT
Raytheon
HYUNDAI
MOBIS
EAT•N
CARLISLE
METHODE ELECTRONICS, INC.

...ement Models

Maturity of relationship (y-axis)

Complexity of engagement (x-axis)

Type 5: Dedicated Engineering Center (By-side, Off-shore)

Type 4: Integrated Delivery Model

Type 3: Remote Delivery Model

Type 2: Project Based Engagement

Type 1: Onsite Support

Pilot

One off engagement

Onsite start – gradual offshore

Combined onsite and offshore

Full blown offshore assembly lines
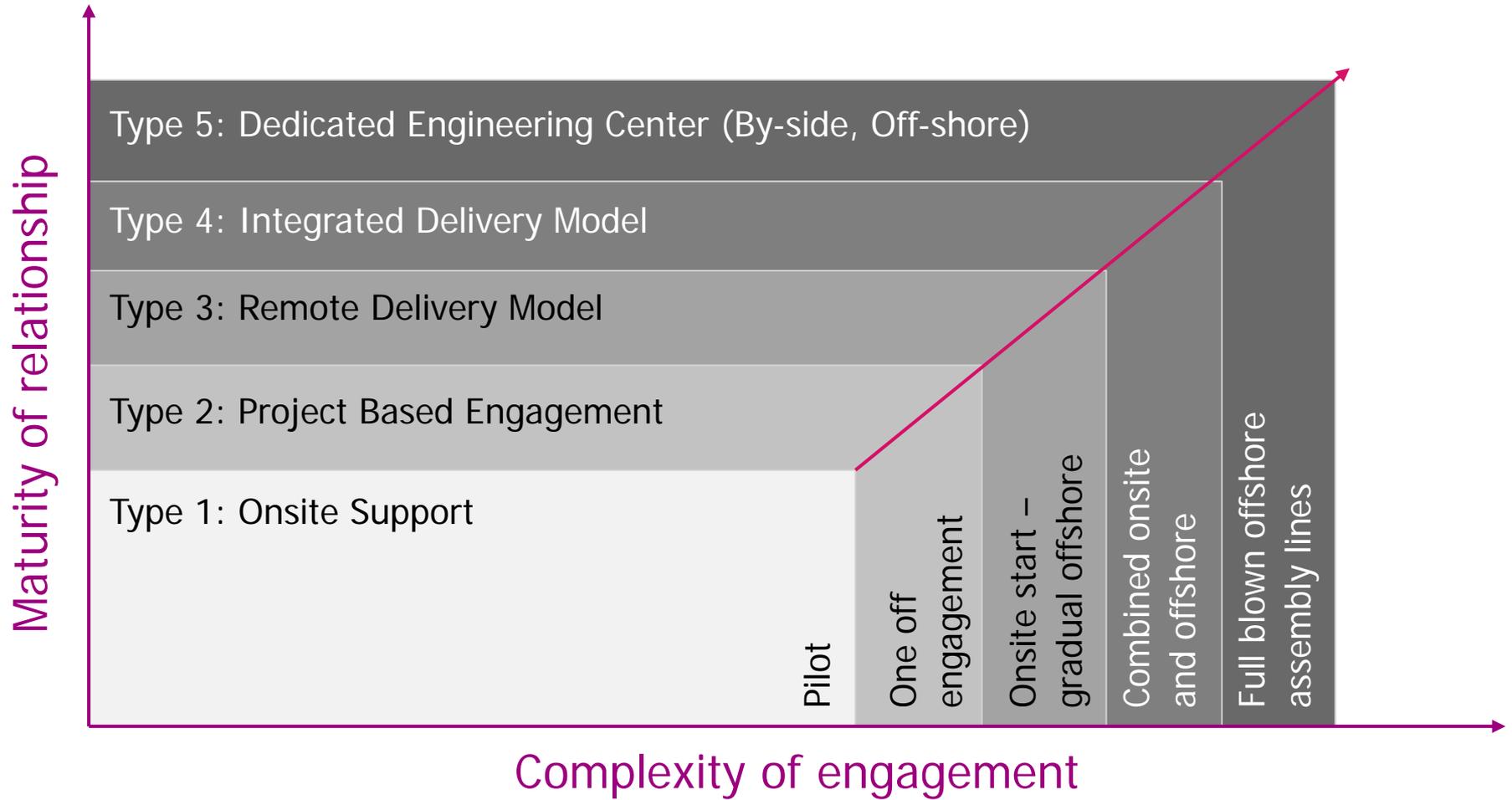
uzzy Distributed Delivery Model

ded Systems Business requires customer intimacy
timal price points

ers appreciate MicroFuzzy' s capability to deliver
the work from both onshore and offshore locations.

ak your language

derstand your culture

ve affinity with your business

n react rapidly to changing demands

croFuzzy Distributed Delivery capabilities are highly
according to your needs.

Client

Onsite Servi

Global Service Delivery

re we looking for ?

Talented **E**ngineers who are willing to work in the following areas

ctric-Powertrain Area

otainment Development and Connectivity Solutions

tonomous Driving Solutions

ts

Powertrain

High Power Electronics, Control Techniques, Electrical Machines, Inverters, DC-DC convertors back ground

Power Electronics hardware design experience

Software Development for Power Electronic Components, Low Level Driver Development

Functional Safety

ts

nment and Connectivity

Testing of Head Units and Instrument Clusters

Android/Linux expertise

Graphics Development

System Testing Expertise of Head Units, Instrument Clusters

Software Development in C++

Agile Development Process

ts

omous Driving

System Testing

Algorithm Development

Software Development in C++

Agile Development Process

Thank you for your time!

www.microfuzzy.com