



# **Investor & Analyst Day 2016**MTU Aero Engines AG

Rzeszów, 14th December 2016



# **Agenda – MTU Investor and Analyst Day 2016**

Time	Agenda	Speaker
9:00 – 9:10	Welcome	Michael Röger, VP Investor Relations
9:10 - 9:30	MTU's Market Environment: The Cycle Continues	Reiner Winkler, Chief Executive Officer
9:30 – 10:40	Technology Leadership Cost Leadership Industry 4.0 @ MTU	Dr. Rainer Martens, Chief Operating Officer
10:40 – 11:00	Coffee Break	
11:00 – 12:20	MTU's Partnership Strategy: Teaming up for Growth	Michael Schreyögg, Chief Program Officer
12:20 – 13:20	Lunch	
13:20 – 14:20	MTU's Financials and Outlook: Reap the Benefits	Reiner Winkler, Chief Executive Officer
14:20 – 16:00	MTU Polska Shop Tour	Krzysztof Zuzak,  Managing Director of MTU Polska





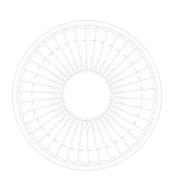
# MTU's Market Environment: The Cycle Continues Reiner Winkler, Chief Executive Officer

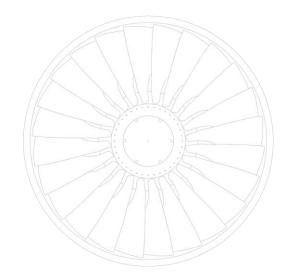
Rzeszów, 14th December 2016

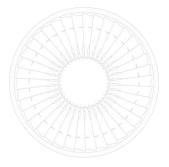


# Market indicators support our end customers

		2015	2016	
Airline Customers	Oil Traffic growth Load factors	\$52 +7.4% 80%	\$43 +6.2% 81%	Continuing low fuel prices stimulates traffic via low fares Load factors at a historical peak









# Market environment supports new engine deliveries as well as engine aftermarket

		2015	2016	
Engine	Deliveries	3,130	3,150	Delivery rates are expected to go up
Deliveries	Backlog	26,030	26,150	Backlog will turn into deliveries
	Fleet growth	+5.0%	+5.2%	Fleet growth has been above average over the last few years
Engine Aftermarket	Park rate	9.0%	7.3%	Low rate benefits mature engines
	Retirements	820	800	Retirements declined since 2014

Source: Ascend, MTU; airliner engines, firm orders only







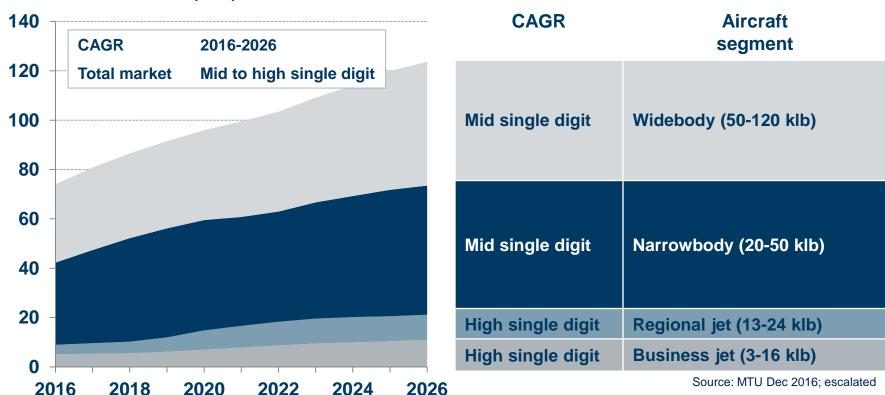






# MTU's continuous growth is supported by all market segments





MTU projects outperformance of market growth in 3 out of 4 segments



## Over-proportional growth in three out of four segments

Increasing market shares, program shares and new business segments

#### Above average growth

#### **Business jets**



# New segments acquired

- MTU is growing in the large business jet segment with future Gulfstream business jets
- → Revenue to triple within 10 years

#### Regional jets



# New segments acquired

 Future will be dominated by GTF

→Increased market share from 0 to 90%

#### **Narrowbodies**



**Existing market** share increased

Program shares increased

→Excellent market position further improved

#### Widehodies

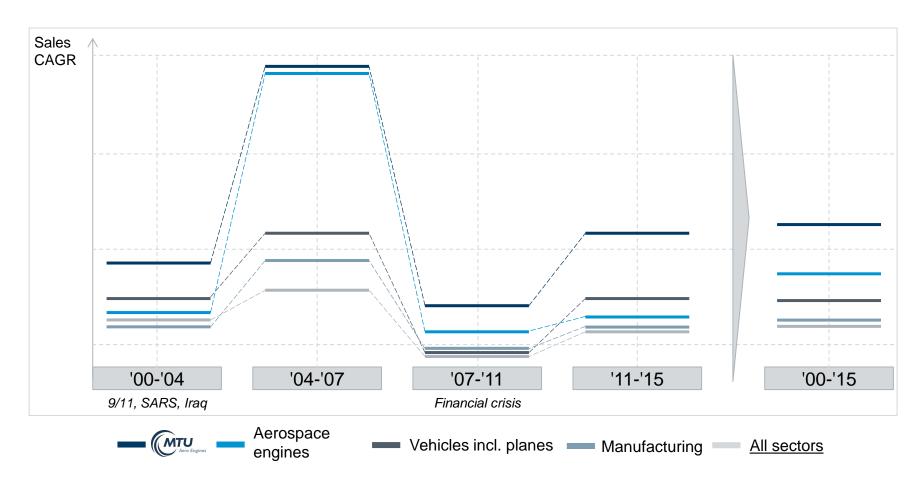


Partner in all new GE widebody programs

→Strong partnership with GE Aviation



# MTU achieved higher CAGRs than industry average during good times and was less influenced by crises in bad times



14th December 2016



# Main indicators that influence the resilience of our industry

Demand indicators	Early '00s Mid-late '00s		Today	Influence on Demand		
Backlog	4 yrs		8 yrs	$\odot$	8 yrs 😊	✓ Higher rates needed to meet orders
Technology status	'90s		'90s	<u>•</u>	'10s 😊	✓ Step change in efficiency achieved
Cost of debt	high		mid		low 😊	✓ Easier access to financing options for airlines
Oil	30		80		50	✓ Below \$80, continued traffic stimulation

Important key indicators in better shape than at any time in the last 15 years



#### Conclusion

MTU's market is in excellent shape: No indictation of weakness of demand



MTU has the right portfolio: MTU has positioned itself better than ever to move forward



### MTU is reliable: In the past, MTU weathered well through all times





























































# Technology Leadership – Status Development Programs and Production Ramp-up Dr. Rainer Martens, Chief Operating Officer

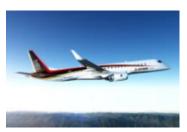
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#### First Geared Turbofan engine flights



Bombardier CS100: 16.09.2013



Mitsubishi Regional Jet: 11.11.2015



Irkut MS-21: open



Airbus A320neo: 25.09.2014



Airbus A321neo: 09.03.2016



Embraer E175-E2: open



Bombardier CS300: 27.02.2015



Embraer E190-E2: 23.05.2016

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Six maiden flights with Geared Turbofan were accomplished in recent years, with two more on their way



A very successful new product family

High Bypass Geared Turbofan Engines PW1100G-JM / A319neo, A320neo and A321neo Medium Bypass PW1400G-JM / Irkut MS-21 Direct Drive Turbofan Large core ~81" Fan PW1900G / Embraer E190-E2 PW814 / Gulfstream G500 PW1500G / BA C Series CS100 and CS300 PW815 / Gulfstream G600 **Medium core** ~50" Fan ~73" Fan PW1200G / MRJ PW1700G / Embraer E175-E2 **Small core** ~56" Fan 10K 15K 20K 25K 30K

The eight-engine product family powers eleven different aircraft and provides a wide range of thrust

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#### Deliveries and in-service experience







- Nine airlines are now operating over 30 aircraft powered by Geared Turbofan engines
- The engines have already accomplished more than 17,000 flights
- The dispatch reliability is already very high in early phase
- Early teething issues are fixed motor-to-start time and nuisance messages
- Focus is on
  - product maturity
  - delivery performance and stabilizing the supply chain
  - completion of MRO-readiness.

#### Over thirty Geared Turbofan aircraft are in-service at nine airlines



#### Features and metrics of PW1100G-JM

- Higher propulsive efficiency
- Higher low spool component efficiency
- Shorter, lighter



- 25% fewer stages
- 45% fewer airfoils
- Lower cycle temperature

Fuel Burn



Reduced by approx. 16%

Noise



Noise footprint reduced by approx. 75%

CO<sub>2</sub> / NOx



Maintenance cost



Specifications and targets have been proven in service



# **Update: Development milestones of new engine programs**

	PW1500G C Series	PW1100G -JM A320neo	PW1200G MRJ	PW1400G MS-21	PW1900G 2nd Gen E-Jets	PW800 G500 / G600	GE9x B777x	T408 CH-53K
	li .	1	1					
First engine to test	<b>✓</b>	✓	<b>√</b>	<b>√</b>	✓	<b>✓</b>	✓	✓
Tested in flying testbed	<b>✓</b>	✓	<b>✓</b>	N/A	✓	✓	2017	N/A
Engine certification	<b>✓</b>	<b>√</b>	2017	<b>✓</b>	2017	<b>✓</b>	2018	2018*
First flight	✓	✓	✓	2017	(E190-E2)	(G500)	2018	✓
Entry into service	<b>✓</b>	<b>✓</b>	2018	2019	2018	2017	2020	2019

<sup>\*</sup> T408: Certification of whole aircraft system after flight testing is completed

### Steady progress on all platforms achieved



## **Update: Production ramp-up**

Key ramp-up projects



New blisk shop

Progress status

In operation



Optimize rotor and stator production lines Progress status

In operation



**Extension of MTU-AE Polska** 

Progress status

In operation



**Engine assembly** 

Progress status

In operation



**Logistics building** 

**Progress status** 

In operation



**Shop floor management** 

**Progress status** 

In operation

Relevant projects have been completed.

Infrastructure and equipment are ready for ramp-up



# **Update: Production ramp-up**

#### **Production rates**

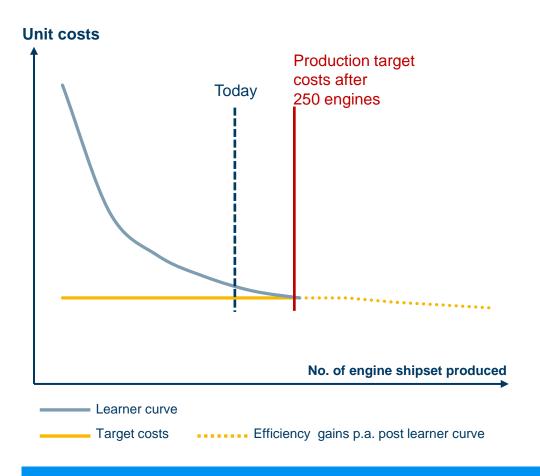
	2009	2015	2020
Turbines	800	1150	1850
Compressors	200	320	1580
Turbine center frames	30	380	350
Engine assembly	30	110	290
Total		1960 0% <u> </u>	
	Yearly in	ncrease Yearly in	ncrease

### Volume increases step by step



# **Update: Production ramp-up**

#### **Geared Turbofan target costs and achievements**



- Quality is at a high level: Production and supplier challenges have been fixed
- Volume is increased step by step
- Lead times are on track
- Actual costs are within target costs, further reductions are ongoing

#### On track to achieve target costs





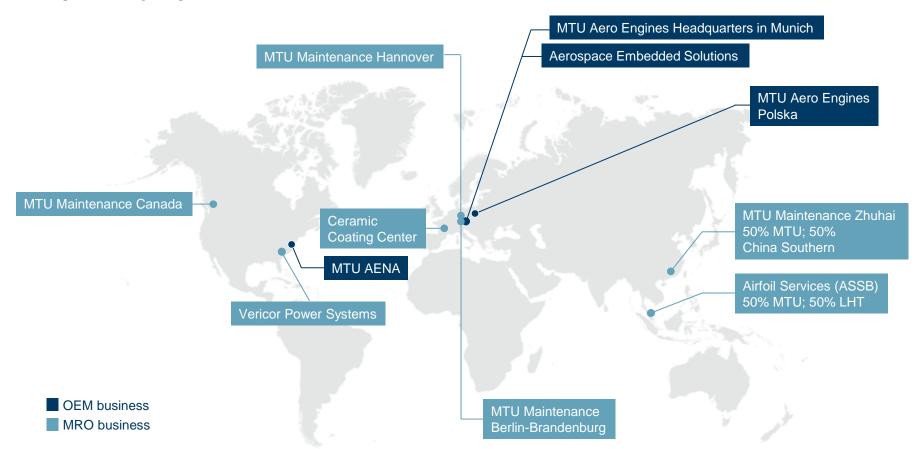
# Cost Leadership – Production Strategy for Best-Cost Dr. Rainer Martens, Chief Operating Officer

Rzeszów, 14th December 2016



### **Production strategy for best-cost**

Major company sites



Production strategies for OEM and MRO define the most competitive locations worldwide



### **OEM** production strategy

#### Strategic set-up

#### **High-tech**



#### **MTU Aero Engines Munich**

- Sophisticated parts and production processes
- Automation
- Development of new production technologies
- Know-how to support all MTU sites and suppliers

#### **Mid-low-tech**



#### **MTU Aero Engines Polska**

- Adopting established parts and production lines
- Improvement of "mid-tech" parts and production processes
- Module assembly improved with know-how transferred from automotive industry

# Raw material, mid-low-tech



#### **Supplier**

- Raw parts
- Finished parts as second source
- "Low-tech" parts from low cost countries

OEM strategic setup ensures a cost-saving allocation of parts in the MTU network



# **OEM** production strategy

#### Highly-automated blisk machining shop in Munich





**Target Key factors** 

#### Flexible manufacturing system

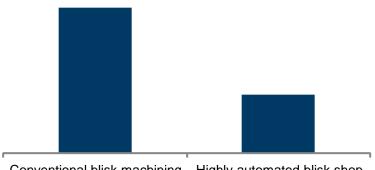
- Suitable product portfolio
- Efficient processes and structures
- Stable processes
- High utilization rate
- High flexibility and reaction time



**Operating figures** (YE 2016)

Labour efficiency [HC]

~1,100 blisks produced 30 employees



Conventional blisk machining Highly-automated blisk shop

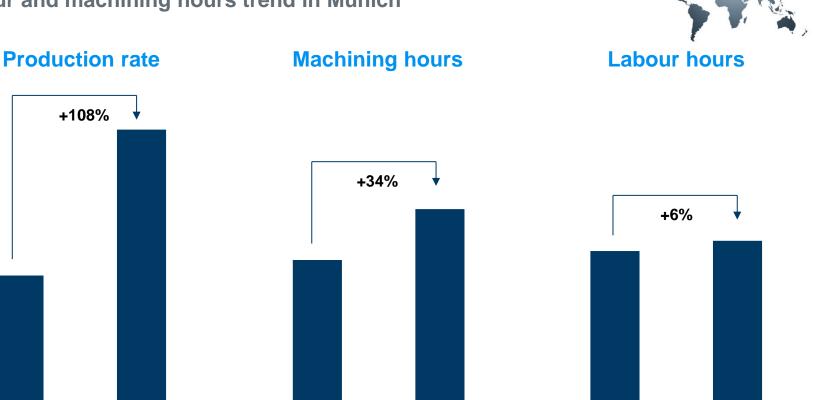
High-tech with highest quality standards is produced at a cost-efficient machining shop



2015

# **OEM** production strategy

Labour and machining hours trend in Munich



2020

2015

Higher automation makes future production more efficient

2015

2020

2020



### **OEM** production strategy

#### Engineering, operations and services at MTU Aero Engines Polska



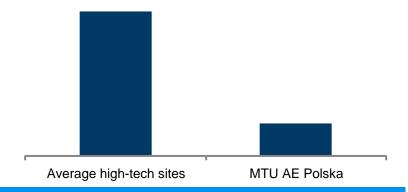


Major business areas



Labour costs per hour

- Engineering and operations
- V2500 IAE upshare: Externals and accessories center
- Services: IT, procurement, production planning, production tooling design
- ~ 110,000 parts produced
- ~ 600 employees thereof 120 R&D



MTU Aero Engines Polska in Rzeszów is a key pillar of the OEM production strategy



## **OEM** production strategy

#### History and company development at MTU Aero Engines Polska





June 2007 Supervisory board approval



April 2008 First ground broken



August 2008 Construction phase started



April 2009 Production start



Dec. 2012 Complete Shop floor in operation



June 2012 V2500 IAE upshare



increasing workload

Dec. 2014 Company extension

finished



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#### The company was built and continuously expanded in recent years



## **MRO** production strategy

Engine MRO at MTU Maintenance Zhuhai Co. Ltd.





Major business areas

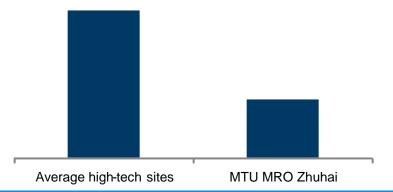
- Engine MRO
- On-wing services
- Standard repairs
- MRO-related services



Operating figures (YE 2016)

Labour costs per hour

- ~ 250 engine shop visits
- ~ 750 employees



MTU Maintenance Zhuhai is an established and well-known independent engine MRO facility in China



### **MRO** production strategy

Parts repair at Airfoil Services Sdn. Bhd. (ASSB)





Major business areas

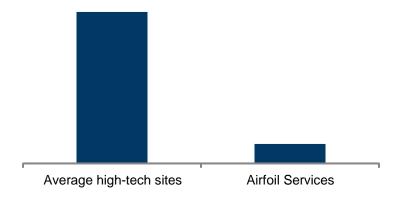
- Repair of high-pressure compressor (HPC) airfoils
- Repair of low-pressure turbine (LPT) airfoils



Operating figures (YE 2016)

Labour costs per hour

- ~ 440,000 parts repaired
- ~ 450 employees



#### ASSB celebrated its 25th anniversary in 2016



#### Site selection and benefits

Three-step model for site selection

#### Step 1:

Evaluation of possible countries and regions

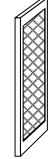
#### Step 2:

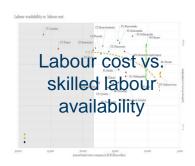
Pre-selection of countries and regions

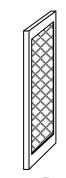
#### Step 3 "deep dive":

Close-pitch selection of 2-3 countries 1-2 regions each









Total cost of operation vs. ease of operations

#### Country & regional level

- Logistics
- Skilled labour availability
- Wage level

#### Regional level

- Total cost
- Logistics
- Skilled labour availability
- Labour regulations
- Macroeconomics
- Governmental incentives

The establishment of companies in Rzeszów, Zhuhai and Kuala Lumpur were based on this model



#### Site selection and benefits

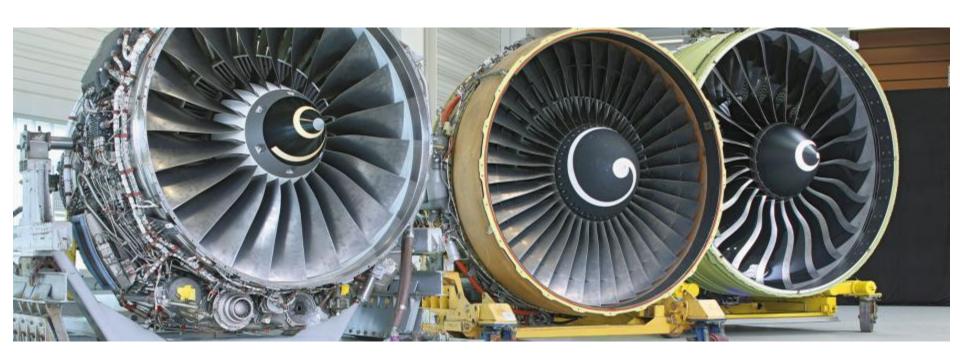
#### **OEM** benefits and achievements

	2009	2015	2020
Total production rates	1060	1960	4070
Headcount MTU Aero Engines Munich	4430	4410	4470
Headcount MTU Aero Engines Polska	240	560	800

- Total production will grow approx. 15% per year, from 2015 to 2020
- Headcount in Munich will remain stable through increased efficiency and benefits from production strategy
- Headcount at MTU AE
   Polska will continuously
   grow. Further service work
   packages will be transferred

Production strategies foster the ramp-up with growing headcounts only at best-cost sites





# Industry 4.0 @ MTU Dr. Rainer Martens, Chief Operating Officer

Rzeszów, 14th December 2016



## Industry 4.0 projects and digitalization

# Research and Development

- Product design/ virtual engine
- Simulation in material development
- Simulation in production processes
- Additive manufacturing
- Digital twin

# Production and Supply Chain

- Manufacturing execution system (MES)
- Optimized material flow
- Digital supply chain

#### MRO and Aftermarket-Services

- Predictive maintenance
- Engine Trend Monitoring

**Industry 4.0** 

Market, sales and distribution

Indirect functions

Digitalization

#### Different projects are leveraging all sectors of the supply chain



# Virtual engine – product design 4.0

Technology roadmap key enabler

Virtual Engine				
Goal	<ul> <li>Intensified use and development of highly capable simulation methods for all engineering disciplines as well as manufacturing of engine parts and modules</li> <li>Reduction of cost-intensive testing of materials, parts, modules and ultimately engines</li> </ul>			
Activities	<ul> <li>ICM²E: Integrated Computational Materials and Manufacturing Engineering</li> <li>DLR TESIG: Testing and Simulation Gas Turbines with a cutting edge facility</li> <li>Digital factory "Fabrik 4.0" including "Logistic 4.0"</li> <li>Additive manufacturing</li> <li>Life cycle engineering</li> <li>Strong enhancement of interdisciplinary working together</li> </ul>			

Preparing for the future – balancing design, materials and manufacturing innovation with cost



# Additive manufacturing – the cornerstone has been laid

Very promising new technology



# Additive manufacturing offers distinct functional and cost-reduction potential



#### Conclusion

- Geared Turbofan engine generation has entered service and meets all targets
- Development milestones for all new engine programs are secured
- Several new programs are about to enter service or already in-service
- Major ramp-up projects done. Quality, volume and cost on track
- OEM and MRO ramp-up will trigger headcount increase at best-cost sites
- Production and sourcing strategies define future roadmaps
- Industry 4.0 projects will foster technological leadership





# MTU's Partnership Strategy: Teaming up for Growth Michael Schreyögg, Chief Program Officer

Rzeszów, 14th December 2016



### MTU's strategic objectives in a long term business environment



- Substantial up front investment
- Long-term product cycles require a balanced portfolio



#### Access to growing markets

- Strongly growing engine programs
- Portfolio expansion





#### Leading technology

High technology expertise required

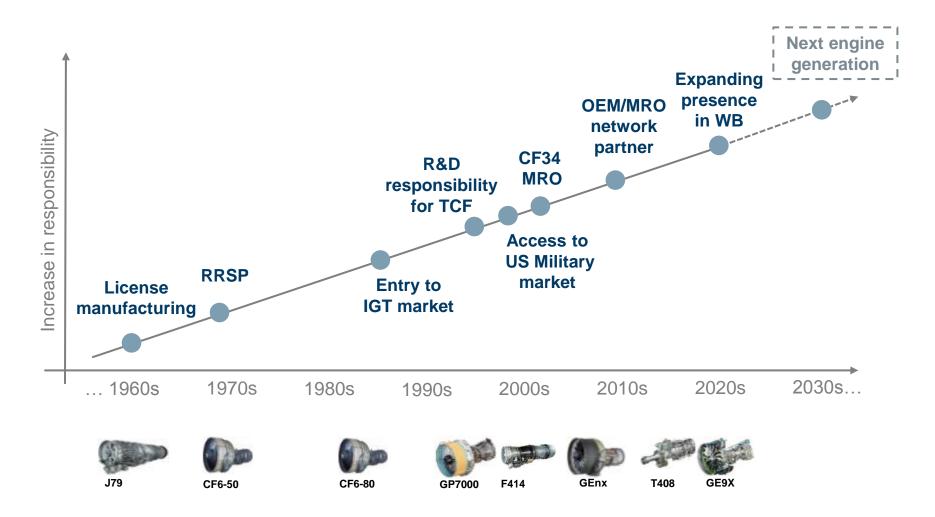


**Benchmark** competitiveness

Strong competition

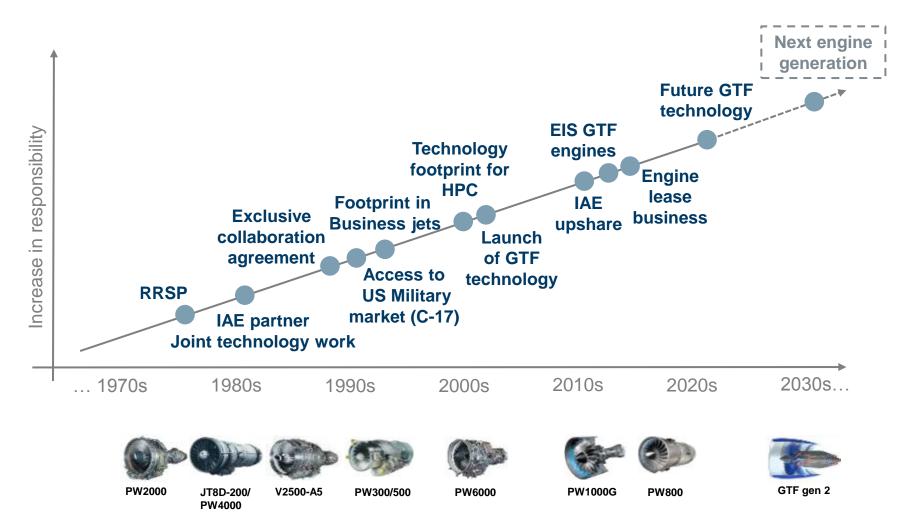
#### General Electric: Reliability in a long-term partnership

Focusing on widebody segment and US military market access

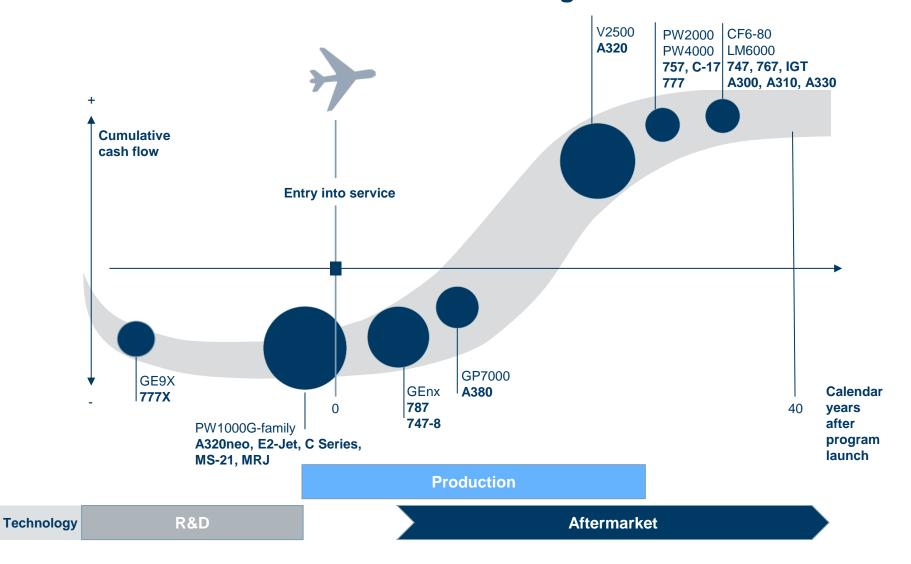


#### **Pratt & Whitney: Exclusive collaboration**

Increase our market presence and expand our responsibilities



## Return on investment in the commercial engine business



#### **MTU Aero Engines partnering with OEMs**

Well established in all market segments







- Excellent technology
- Benchmark production costs
- Reliable partner in terms of delivery and quality
- Long-term relationship
- Market leader in widebody segment
- Access to US military business

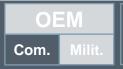
- Strategic collaboration
- Improving market position in business / regional jet and narrowbody segment



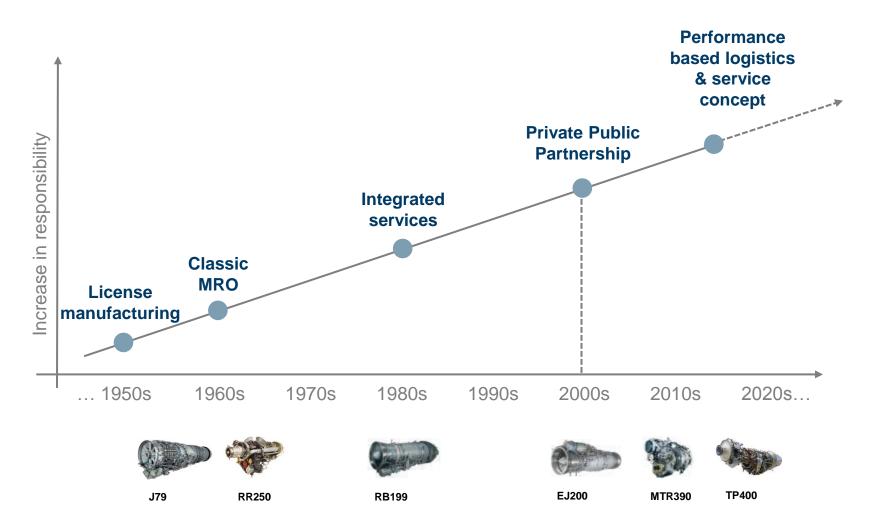
Providing leading technology
Ensuring growth & market access in all business segments



Balanced portfolio & risk mitigation



## MTU Aero Engines cooperating with the German Armed Forces









# MTU Aero Engines and the German Armed Forces

Saving cost, time and resources



60 years

- Customer since 1956
- Private Public Partnership since 2002
- Employees: 75% MTU; 25% Armed Forces

900 Engines
8,300 Modules

- Engine, module and parts repair
- Technical and logistical support
- Spare parts provisioning and stock management

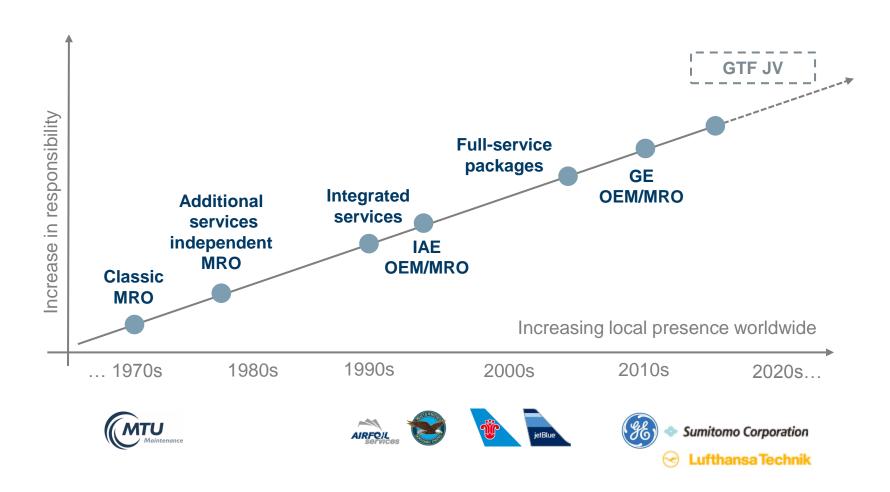


Bringing a commercial approach to military engine programs

Sharing technical know-how and military operational experience

### **Evolution of our MRO service portfolio**

Increasing airline demand for full MRO service packages





#### **MTU Maintenance and Lufthansa Technik**

Best-cost for engine parts repair



# 25 years

- 50:50 partnership with Lufthansa Technik since 2003\*
- Over 80 customers worldwide
- Revenue has grown 9x since 2003

# ~5 million parts repaired

- Repair of blades from major aircraft engine types, including GE, CFMI and IAE
- Cost-efficient and state-of-the-art engine parts repair
- Synergies and economies of scale
- Potential to expand product portfolio to cover all OEMs





Dedicated to parts repair – now and in the future

\*company was founded in 1991 by MTU and Malaysian Airlines



#### MTU Maintenance Zhuhai Ltd. and China Southern

A success story



15 years

- 50:50 JV with China Southern since 2001
- Access to 3<sup>rd</sup> biggest airline worldwide
- JV \$ revenue has doubled in last 5 years

~\$800m revenue

- Improved market access
- Most efficient narrowbody engine MRO shop
- Worldwide customer base
- Strong financial performance



#1 MRO shop in China aiming to expand customer base and grow narrowbody portfolio



#### **MTU Maintenance and JetBlue**

Low-cost airline supported with t(h)rust



11 years

- Contract in place since 2005
- Reliable fleet management on a flight-by-hour basis
- Offering full service package

>500 Shopvisits

- Market leader for V2500
- More than 300 engines covered
- Joint capacity planning approach



Driving cost-savings for airline and supporting MTU's strategy as independent MRO provider

#### **Engine lease JVs with Sumitomo**

Complementing each other's business model



3 years

- Entities located in Amsterdam since 2013
- Lease pool of +100 engines
- Lease business complementing traditional MRO business
- Improved access to used material
- Asset & material management

>100 ln 2016

Engine leases

- Integrated engine leasing solutions for all thrust segments
- Expansion of customer base and sales channels (esp. Asia)
- Capital-intensive business



Rapid recognition in lease business Potential for further growth



### Partnerships are necessary to remain competitive in commercial MRO

#### **OEM** cooperation



#### **Independent MRO**



#### **Airline cooperation**



#### Goal

- Provide cost-efficient, industrialized MRO
- Leverage OEM network
- •Remain #1 provider with focus on customers
- Provide integrated life cycle services
- Develop current cooperation
- Investigate future cooperation potential

#### **Partner**











## We continue to develop strong partnerships



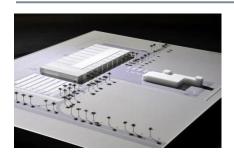
#### **Lufthansa Technik**

MTU and Lufthansa Technik explore a maintenance joint venture

#### **Background**

- MTU and Lufthansa Technik participate in the PW1000G aftermarket network
- · Additional capacity for disassembly, assembly and test work in a cost competitive environment
- For MTU, the PW1000G is a major growth program in the commercial engine business
- For Lufthansa, the PW1000G is an integral part of the fleet development

#### Main contribution to MTU's strategy



- Shared investments
- Synergies due to combined volume

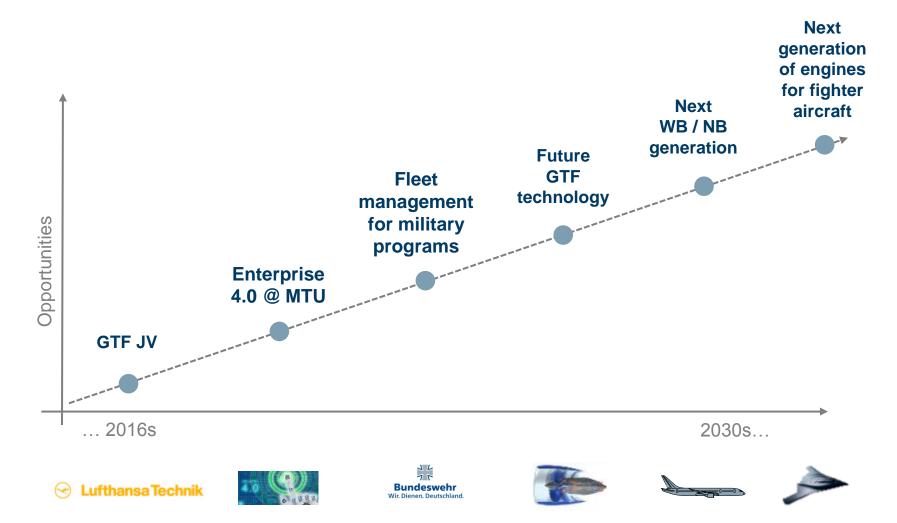


- Shared buildup effort
- Fast ramp-up



High volumes and high industrialization in a low-cost environment will generate the most efficient MRO shop for PW1000G in the future

#### Opportunities @ MTU to ensure future growth





### **Pillars of MTU Strategy**



All of MTU's partnerships with their different characteristics contribute to MTU's growth strategy



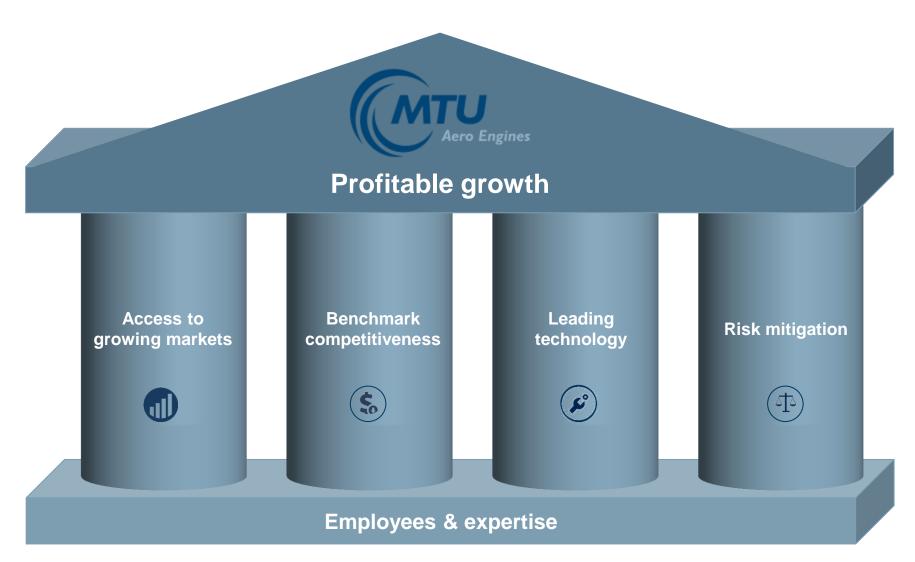


# MTU's Financials and Outlook: Reap the Benefits Reiner Winkler, Chief Executive Officer

Rzeszów, 14th December 2016



## **Pillars of MTU Strategy**





#### Head and tailwinds 2017

#### **Organic Revenue Growth**

Military: Down mid single digit

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Commercial OE: Up high single digit



Commercial Spares: Up mid single digit



Commercial MRO: Up in the low teens



Tailwind from US\$

Slight headwind from mix



## Long-term outlook 2014-2025: Status CMD2015

	Investment phase 2014	-2017	Consolidation phase 20	18-2025
Revenues	Military:		Military:	S
	Com. OE:	企	Com. OE:	Û
	Com. spares:	⇧	Com. spares:	
	Com. MRO:	价	Com. MRO:	
EBIT adjusted	Growth in line with reve	enue	Growth stronger than re	evenue
Net Income adj.	Growth stronger than EB	IT adj.	Growth in line with EBIT adj.	
CCR*	Low double digit %		High double digit %	

<sup>\*</sup> Cash Conversion Rate = Free Cash Flow/Net Income adj.



## Investment phase 2014 to 2017 – well on track to deliver

Organic revenue growth	2014 A	2015 A	2016 G	2017 G	CAGR
Military:	•	**	$\Box$	$\triangle$	□> ✓
Commercial OE:	<b>4</b>	•			<b>☆</b> ✓
Commercial Spares:		•	$\triangle$	$\triangle$	<b>☆</b> ✓
Commercial MRO:	•	<b>#</b>			<b>☆☆ ✓</b>



# Investment phase 2014 to 2017 – well on track to deliver

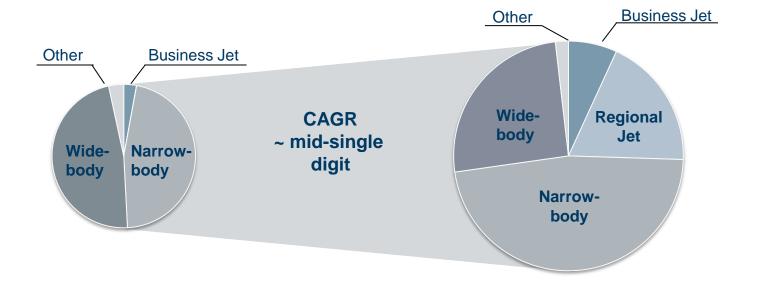
	2014 A	2015 A	2016 G	2017 G	2014-2017	
EBIT adjusted Margin	~10%	~10%	~11%		Growth in line with revenue	<b>✓</b>
Net Income adj.	€253m	€307m	~€340m		Growth stronger than EBIT	✓
CCR	17%	22%	21%		Low double digit %	<b>✓</b>



#### Revenue growth in commercial OE

**Today (2015)** 

**Future (2025)** 



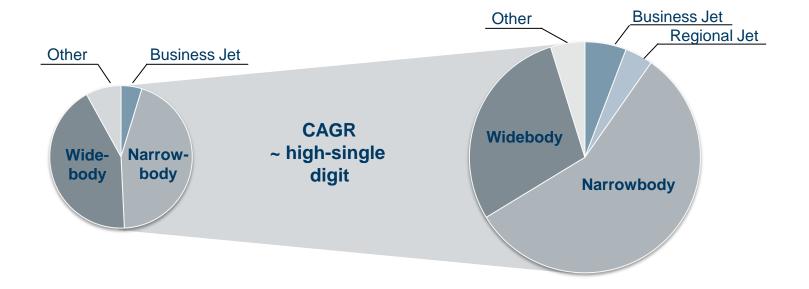
Growth of commercial OE business secured through extensively filled order books and stronger diversification



#### Revenue growth in commercial spare parts

**Today (2015)** 

**Future (2025)** 



New engine programs (GP7000, GEnx, GTF) will join the V2500 to significantly drive future spare parts growth



### Revenue growth in military

**Today (2015)** 

**Future (2025)** 



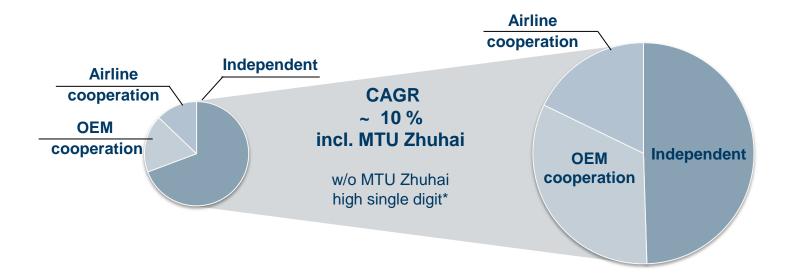
Stronger demand in aftermarket/services and T408/GE38 compensates for decline in EJ200 production



#### **Revenue growth MRO**



#### **Future (2025)**



Independent business will remain MTU MRO's revenue driver while OEM & airline cooperation business gains importance



# Long term outlook 2018-2025 update: Improvement of profits and cashflow reconfirmed

	Consolidation phase 2018-2025	
Revenue	Military (ex slightly down ):	
	Com. OE:	$\bigcirc$
	Com. spares:	价
	Com. MRO:	
EBIT adjusted	Growth stronger than revenue	
Net Income adj.	Growth in line with EBIT adj.	
CCR	High double digit %	



# MTU's cash deployment strategy

Prio	Instrument	Investment phase 2014-17	Consolidation phase 2018 - 25	
I	Investment in organic growth	Strong investment in new programs	Limited opportunities	
II	Dividend deployment	Growth in line with net income	Growth stronger than net income	
III	Share buyback programs	No buyback programs as cash conversion low	Instrument to limit deleveraging	
IV	M&A	No suitable targets in aircraft engine market	No new targets expected	



#### IFRS 15 – Summary

- IFRS 15 "Revenue from Contracts with Customers" has been endorsed by the EU in October 2016, becoming effective in 2018
- It replaces all existing IFRS revenue recognition requirements
- IFRS and US GAAP revenue standards are substantially aligned
- The new framework focuses on contractual performance obligations and on allocating a transaction price to those obligations (5-step model)

# Step 1 Identify the contracts with the customer

# Step 2 Identify the performance obligations in the contract

# Step 3 Determine the transaction price

# Step 4 Allocate the transaction price

# Recognize revenue when a performance obligation is satisfied

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Step 5

- Core principle: Revenue should be recognized as an entity transfers control of goods or services
- No impact on cash flows



#### **IFRS 15 @ MTU**

#### **Preliminary assessment of implications on MTU accounts:**

Main accounting issues	Current accounting	Potential future accounting
Concessions	<ul> <li>Cost of goods sold</li> </ul>	<ul> <li>Reduction of revenue when underlying engine sales occur</li> </ul>
Program entry fee and compensation payments for development costs	<ul> <li>Capitalization as intangible asset</li> <li>Straight-line amortization over the useful life within costs of goods sold</li> </ul>	<ul> <li>Payment to the customer capitalized as "other long-term assets"</li> <li>Reduction of revenues over program term depends on timing of revenue recognition</li> </ul>
Flight Hour Agreements	<ul> <li>Recognition of revenue when shop visits occur</li> </ul>	<ul> <li>No change</li> </ul>

No material impact on profit and cash recognition expected from IFRS15



# Market in excellent shape

# Better position than ever

GTF on spec

Acceleration of EBIT and FCF growth

...looking forward to answering your questions!



#### **Cautionary Note Regarding Forward-Looking Statements**

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