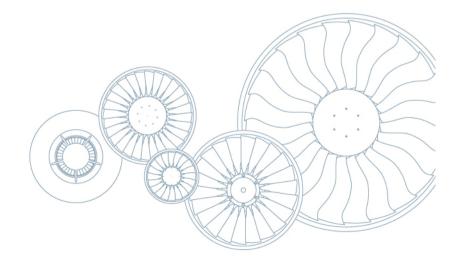




Investor & Analyst Day 2014 MTU Aero Engines AG

Munich, November 25, 2014





Agenda – MTU Investor and Analyst Day 2014

Time	Agenda	Speaker
11:30 – 11:40	Welcome	Michael Röger VP Investor Relations
11:40 – 12:00	Significant Milestones Achieved	Reiner Winkler, CEO
12:00 – 12:40	OEM Business – MTU Well Positioned In The Growing Engine Market	Michael Schreyögg, Chief Program Officer
12:40 – 13:20	The Geared Turbofan – A Successful Start Into Future Engine Generations	Dr. Rainer Martens, COO
13:20 – 14:30	Lunch Break	



Agenda – MTU Investor and Analyst Day 2014

Time	Agenda	Speaker
14:30 – 15:30	Shop Tour – Blisk Manufacturing Hall / EJ200 Engine Test Cell	
15:30 – 16:10	MRO Business – Ready For A Changing Business Environment	Dr. Stefan Weingartner President MTU Maintenance
16:10 – 16:50	Financials And Outlook / Summary	Reiner Winkler, CEO
16:50	End Of Conference	

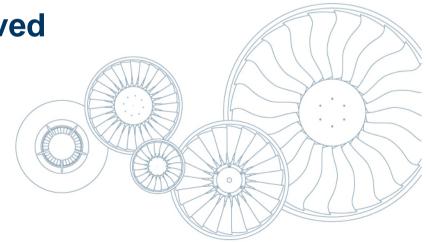




Significant Milestones Achieved

Reiner Winkler, CEO

Munich, November 25, 2014





The Pure Power Engine Family makes material progress











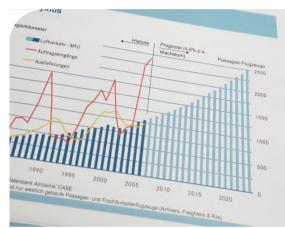
Promising outlook for the aerospace market

- Record airliner order book of over 11,000 aircraft
- Record deliveries from Airbus and Boeing of over
 1,350 aircraft expected for 2014
- Regional Jet/ Turboprop deliveries up 28% y-o-y
- Current airliner engine fleet of almost 40,000 (+4,6 % y-o-y)
- Positive development of growth indicators for 2014 (IATA estimate):

traffic growth: 5.9 %

airline profits: 18.0 bn US\$

→ MTU has achieved significant milestones to benefit from the perspectives of the growing market







OEM Business

- Over 6,000 GTF engines on firm order or optioned
- Successful first flight of A320neo in September
- V2500-E5 (powering the KC-390) achieved
 FAA engine certification
- Program share of 4% in the GE9X program
- Gulfstream G500/G600 powered by PW800
- Deliveries of A400M on track

→ MTU is consequently following its growth path







Success Story GTF

Over 6,000 engines ordered (incl. options and not announced orders)
Roughly 50% market share with A320neo / providing power for 5 platforms

































Commercial MRO Business

- Broad portfolio covering strongly growing engine types
- GE90 ramp-up on track
- GEnx MRO contract signed
- Record quarter Q3 2014
- Contract wins in first 9 months 20% above prior year

→ MRO engine portfolio well positioned for the future business environment







MTU's agenda for the next years

- Sustain balanced portfolio over all market segments
- Strong ramp-up of GTF volumes
- Further development of GTF technology
- New engine participations with tight time schedule for entry into service
- Manage transition to OEMRO aftermarket model









Thank you for your attention!





OEM Business – MTU Well Positioned In The Growing Engine Market

Michael Schreyögg, Chief Program Officer

Munich, November 25, 2014



Military Business - Status

• EJ200 (Eurofighter):

- More than 1,100 production engines delivered
- Main focus on increasing overhaul services

• TP400-D6 (A400M):

- Excellent performance in first missions
- First aircraft delivered to Air Forces in France, UK, Turkey
- First Flight of German A400M took place Oct. 14, on plan for delivery scheduled end of November

• GE38 (CH53-K):

- Achievement of first engine runs on the Ground Test Vehicle
- Preparations for First Flight 2015 in place









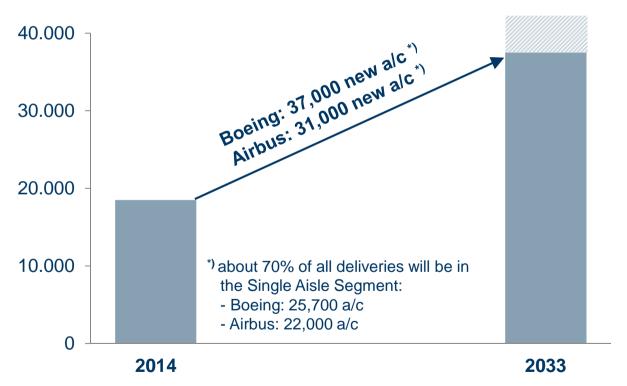
Military Business - Outlook





Commercial Business – Market Outlook Airbus and Boeing

Active Fleet over 100 PAX





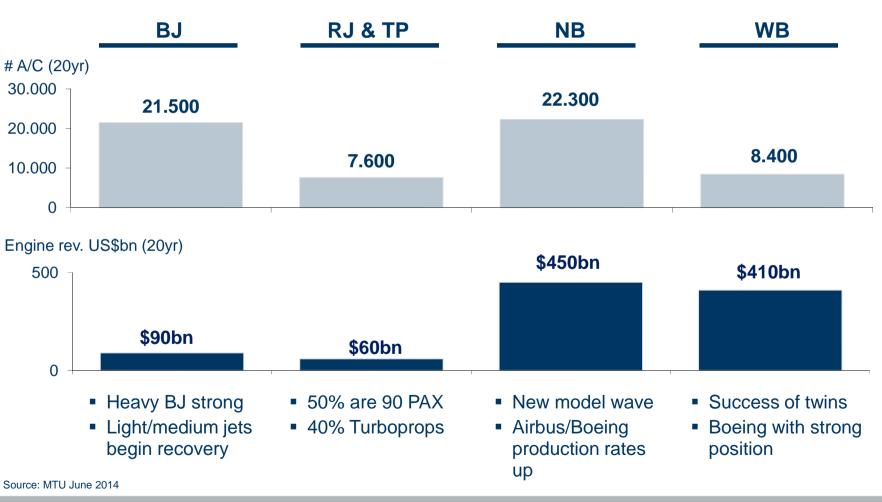




Source: Dow Jones.de - Sep. 2014



The next 20 years will require ca. 60,000 com. aircraft, generating \$1000bn of engine revenue. Thereof some 85% with NB/WB engines





New Business Jet Product Family



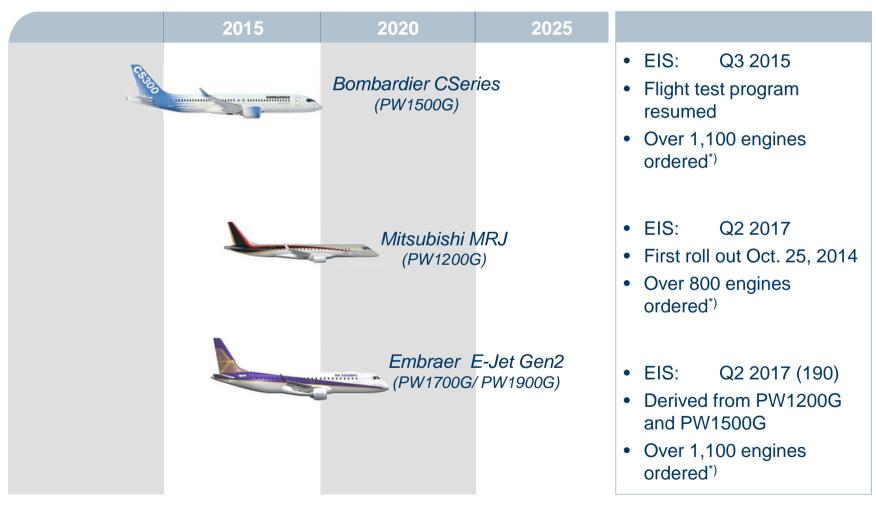








Regional Jet Update

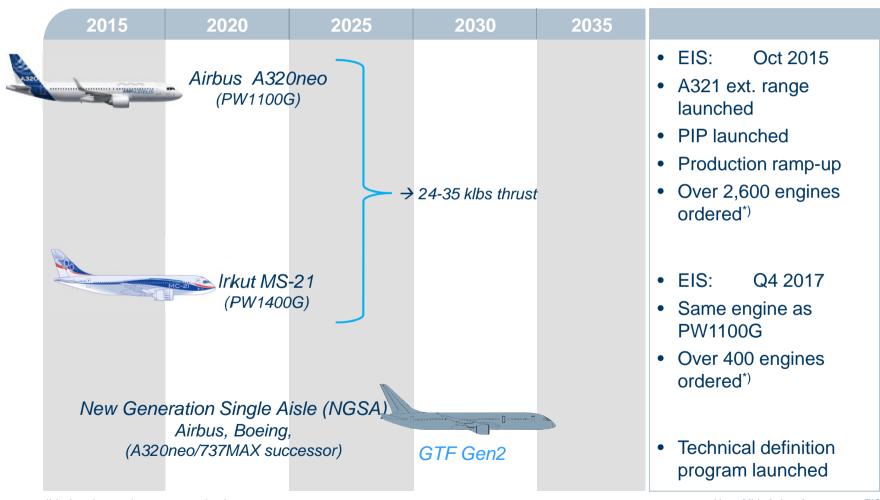


*) incl. options and not announced orders

Note: Mid of aircraft represents EIS



Narrowbody Update

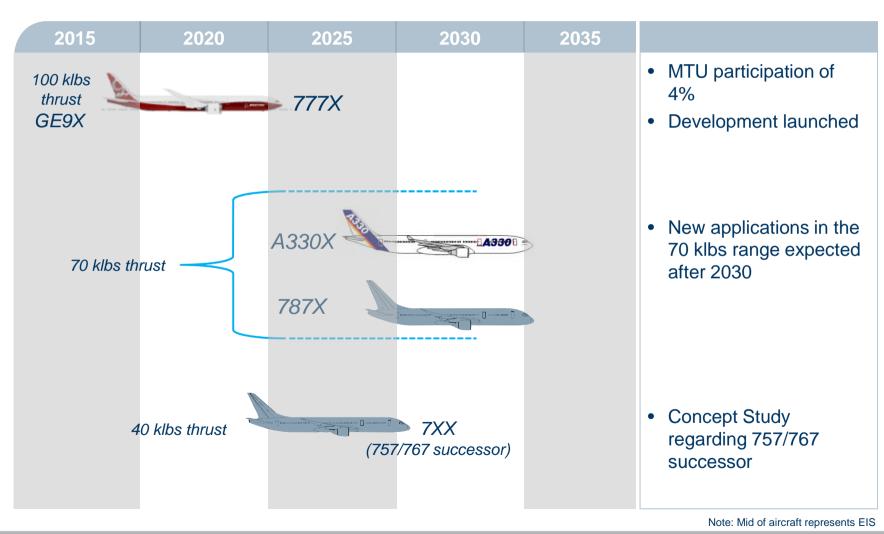


*) incl. options and not announced orders

Note: Mid of aircraft represents EIS

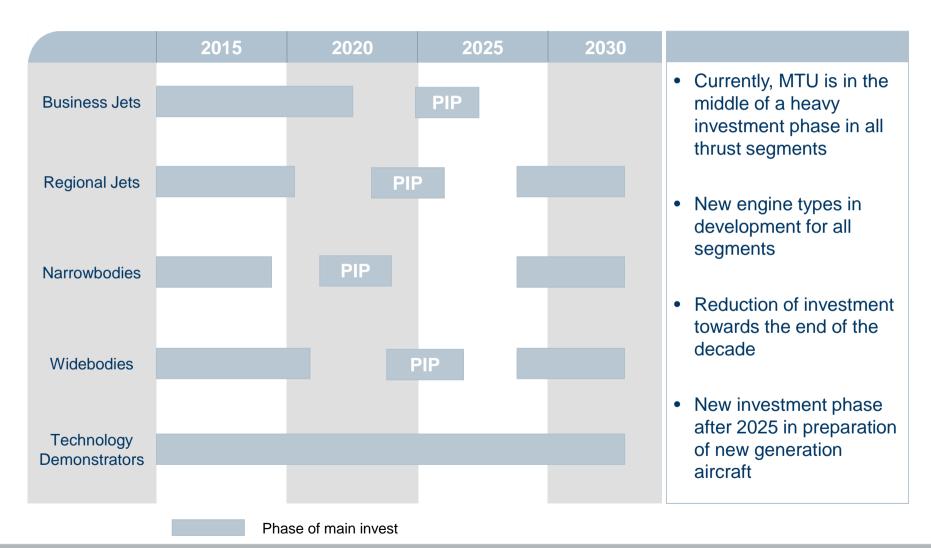


Widebody Update



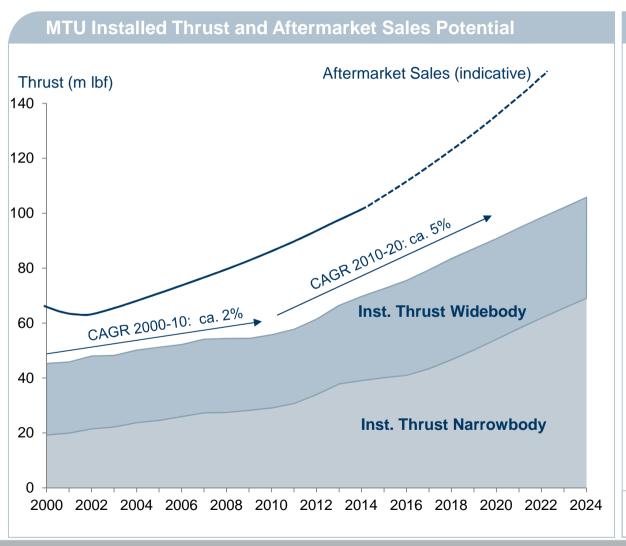


Massive invest phase of MTU coming to an end





MTU's engine participations show growth with strong momentum



- Growth of installed thrust accelerating since 2010
- Main driver for MTU is its strong position in the narrowbody and regional jet market
- Installed thrust reflects non-escalated aftermarket and spares sales potential
- MTU's market position substantially improved with new participations
- ✓ MTU's installed thrust will lead to strong growth of aftermarket sales within the next years

Source: MTU Oct 2014 Note: the fleet installed thrust is weighted with program shares (# inservice a/c x thrust x program share)



Summary OEM Business

• Stable revenues in military business



• Strong increase of total market expected



Market share gains in all segments for MTU



Investment phase is expected to come to an end



• Increase in installed thrust ensures long term aftermarket growth















Thank you for your attention!





The Geared Turbofan - A Successful Start Into Future Engine Generations

Dr. Rainer Martens, COO

Munich, November 25, 2014



Technical Milestones GTF Programs

Engine/ Aircraft	PW1500G/ CSeries	PW1100G/ A320neo	PW1200G/ MRJ	PW1400G/ MS-21	PW1900G PW1700G E-Jet 2 nd Gen.
First Engine to Test	√	\checkmark	✓	Q2 2015	Q1 2015 Q2 2016
Tested in Flying Testbed	\checkmark	✓	\checkmark	N/A	Q2 2015 Q2 2016
Engine Certification	\checkmark	Q4 2014	Q4 2015	Q3 2015	Q4 2015 Q2 2017
First Flight	✓	\checkmark	Q2 2015	2016	Q4 2015 Q3 2017
EIS / Aircraft Certification	Q3 2015	Q4 2015	2017	Q4 2017	Q2 2017 Q2 2019

R&D program for all GTF platforms well on track



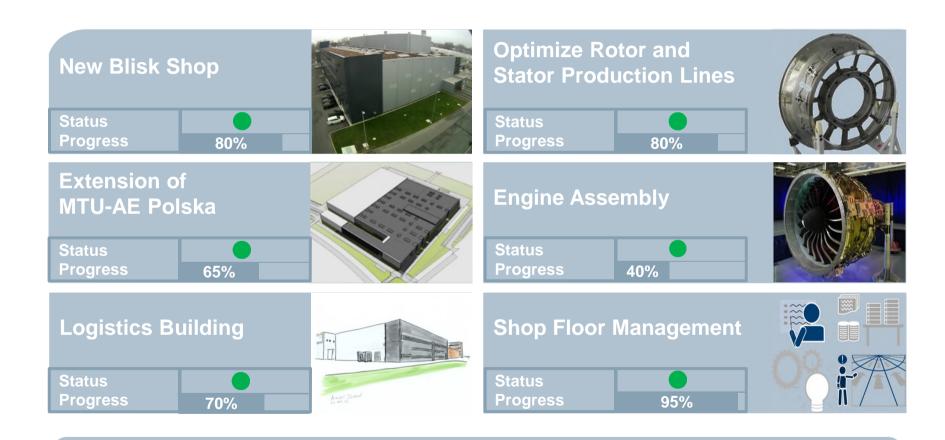
Production Ramp Up

	2009	2014 E	2019 E	
Turbines	800	1100	2050	
Compressors	200	270	1400	
TCF	30	400	250	
Engine Assembly	30	90	250	
Total	1060	1860	3950	
+80% +110%				

Yearly average increase by 14%



Key Projects



Projects are well on their way and will support the production ramp up



Engine Upgrades and Preparation for Series

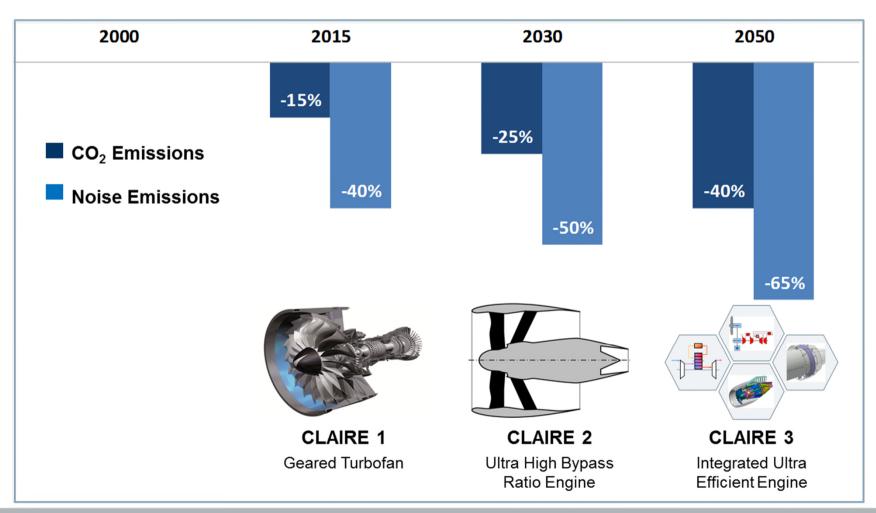
- To keep the aircraft attractive, engine upgrades are performed throughout the life of the engine. The purpose of these upgrades can be specific fuel consumption, durability, maintenance, thrust and costs
- The changes introduced by an engine upgrade typically involve module and component efficiencies, secondary air system and weight
- For the PW1100G engine a Performance Improvement Package (PIP) has been started to improve the specific fuel consumption by an additional 2% until 2019
- An upgrade in the thrust level of the GTF to 35 k lbs will secure its position for the A321 extended range version
- Preparation for Series: PCE, Manuals, EC's, Concessions, Maintenance Costs, Aftermarket and OEMRO

Ongoing activities to keep engines attractive

Workload for engineering remains high



MTU Technology Roadmap - <u>CL</u>ean <u>AIR</u> <u>Engine</u>, <u>CLAIRE</u> GTF - First Step is implemented





GE9X Program – The Aircraft Boeing 777X

Characteristics

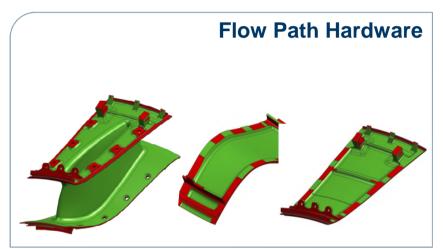
- 100,000 lb thrust
- 355 to 446 seats
- Exclusive engine GE9X
- Reduction in fuel consumption of 10% compared to 777-300ER
- 5% lower fuel consumption than any other twin-aisle engine in service in 2020
- 300 firm orders

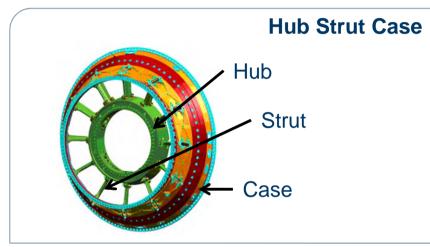




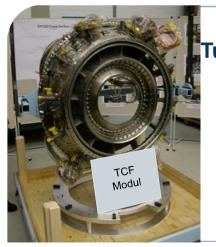


GE9X MTU Program share





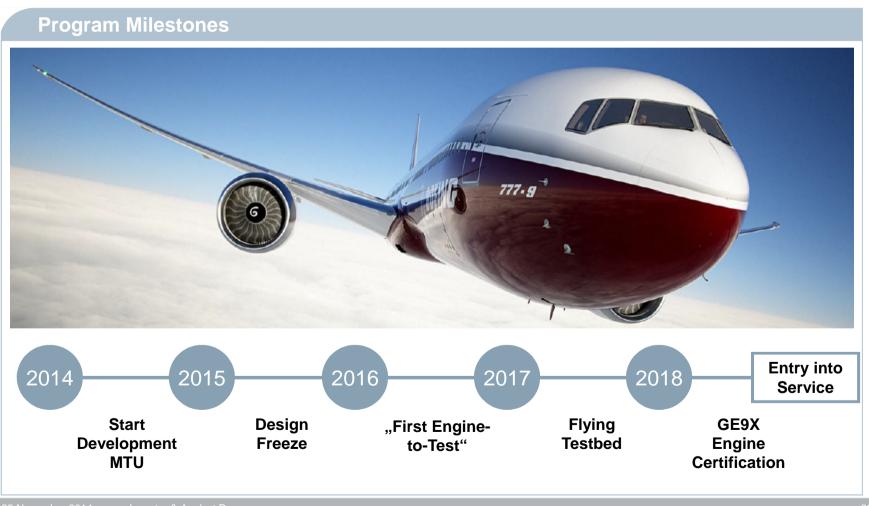




Assembly Turbine Center Frame



GE9X Level I Milestones





Summary

- The Geared Turbofan is a very successful product
- Production ramp up is well on its way
- Projects to enable production are executed according to plan
- Technology roadmap for next generation engines is defined and executed
- GE9X engine program is launched

The GTF has put MTU into an excellent position





Thank you for your attention!





MRO Business - Ready For A Changing Business Environment

Dr. Stefan Weingartner, President MTU Maintenance

Munich, November 25, 2014

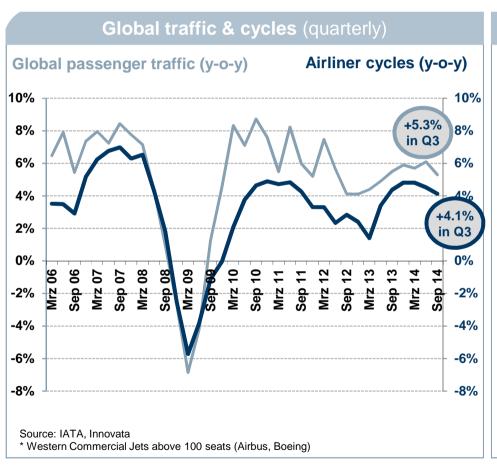


Current market trends – per November 2014

GDP GDP	+2.1% → +2.3% 2013A 2014E	 Disappointing Eurozone and emerging market slowdown delay recovery Faster growth expected in 2015 (+2.9%)
Freight traffic	+1.4% → +3.1% 2013A 2014E	Cargo traffic begins recovery
Passenger traffic	+5.7% → +5.9% 2013A 2014E	Strong ongoing air travel demand
Aircraft utilisation	+4.3% → +5.3% 2013A 2014E	 Strong growth in flight hours Growth in cycles also rising (+3.5% to +4.4%)
Airliner engine fleet	38,060 → 39,810 Sep 13 Sep 14	 Active fleet growing strongly with +4.6% y-o-y Double-digit growth for V2500, CFM56-5/7, GE90G
Airline profits	+\$10.6b → +\$18.0b 2013A 2014E	 5th year of profitability thanks to strong traffic, favorable fuel prices and US consolidation
Fuel price (crude oil)	\$109 -> \$104 2013A 2014E	 Fuel prices on a downward trend (US\$ 80 in November 2014)



Passenger traffic and cycles grow strongly and steadily



Highlights

- Global passenger traffic up 5.3% in Q3
- Cycle rebound follows traffic rebound however at a lower growth rate
- Growth in cycles for Airbus and Boeing airliners is strengthening since 2013
- Growth driven by higher utilization of in-production aircraft (A320, A330, 737NG, 777, 787, A380)
- Some out-of-production aircraft are seeing double-digit declines



Market indicators per engine type

	Engine	Active fleet	Park rate	<u>Y-O-Y as of Sept. 2014</u>
Ø	Airliner engines	39,810 +4.6%	9.5%	Continued growth in fleet and hours
	V2500-A5	4,908 +11%	2%	Steady double-digit growth
	GE90G	1,334 +19%	0%	Stable production of 100 aircraft p.a.
	CFM56-5B/-7	15,786 +9%	1%	Strong growth
	CF34-8/-10E	3,432 +9%	2%	CF34-8 fleet up +11% (US re-fleeting), CF34-10 up +5%
	CF6-50 mil.	189 +0%	n/a	Very stable fleet and related MRO-demand
	CF6-80C2	2,563 -5%	12%	Fleet declines as storage rises
	PW2000 com.	620 -11%	22%	Storage continues to rise, hours declining faster
8	CF34-3	1,288 -8%	25%	50-seaters being replaced by 70-seaters
8	CFM56-3	2,020 -6%	25%	Fleet/hours decline (retirements, storage)
8	CF6-50 com.	171 -6%	55%	Surplus from parked fleet strongly impacts MRO-demand

Source: Ascend, Innovata, MTU estimates 1) 3rd Quarter 2013

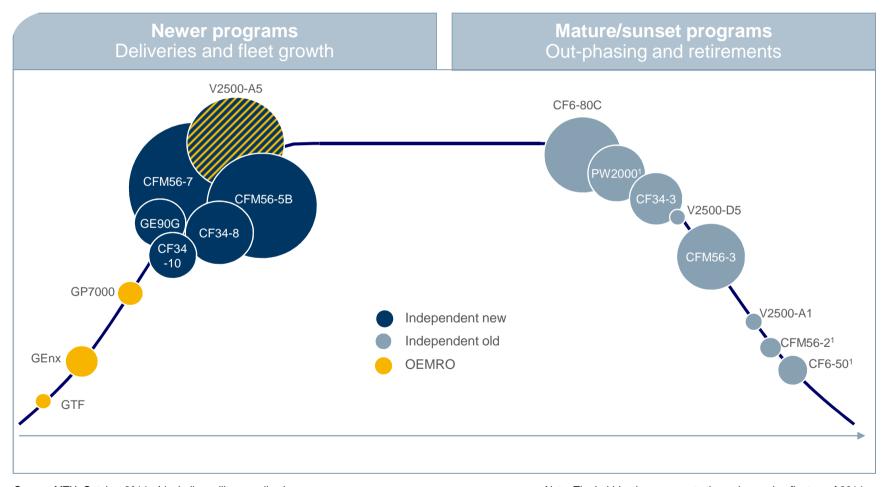


MTU Maintenance successfully serves three market segments with distinct characteristics

Segment **Market characteristics** Decreasing fleet (retirements) Independent Customers are Airlines or Lessors old Limited OEM influence Growing fleet (engines in production) Independent Customers are Airlines or Lessors new Growing OEM influence Fast growing fleet (engines in production or upcoming EIS) **OEMRO** OEM is the only customer • MTU is an OEM network partner



Today: Diversified portfolio with a strong focus on newer engines in their growth phase (MTU MRO portfolio only)

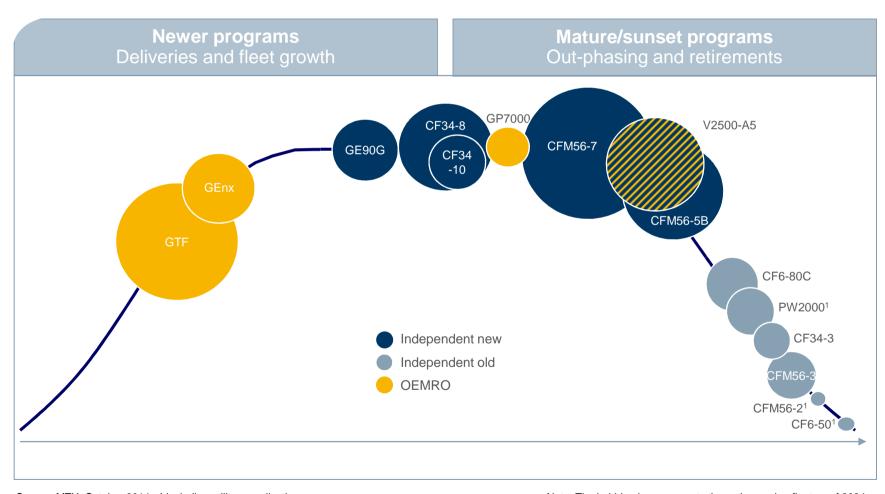


Source: MTU, October 2014 ¹ including military applications.

Note: The bubble size represents the active engine fleet as of 2014.



2024: MTU's MRO portfolio benefits from today's growth engines reaching maturity

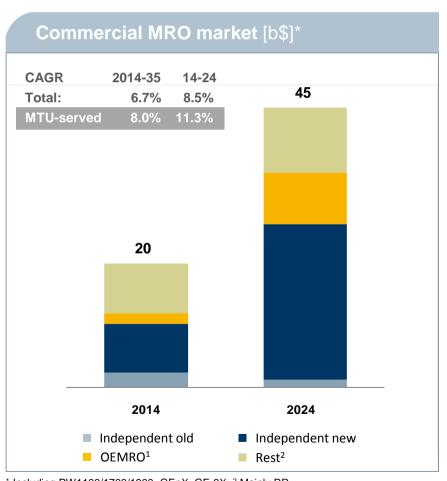


Source: MTU, October 2014 ¹ including military applications.

Note: The bubble size represents the active engine fleet as of 2024.



Thanks to MTU's hybrid strategy and market coverage, its served market will grow over-proportionally at 11.3% over the next 10 years



Remarks

- The MTU-served market will grow overproportionally at 11.3% from 12 to 34b\$ versus a 8.5% growth of the total market.
- MTU Maintenance has the broadest engine portfolio of all MRO providers. It serves nearly all engine types except the RR engines.
- The OEMRO model gains in importance in the coming decades.

Source: MTU, October 2014 * Escalation included

¹ Including PW1100/1700/1900, GEnX, GE-9X; ² Mainly RR



MTU Maintenance Unique Selling Proposition applies to all market segments

DRIVERS ENGINE OPERATIONS: Measures to defer /avoid shop visits*



SHOP VISIT: Measures to reduce cost and/or maximize asset value*

TRIGGERS

^{*} Decision by airline and/or MRO



MTU Maintenance has the largest MRO portfolio and is the only provider capable of covering/accessing all market segments ...

Segment	2014	Share of MRO Revenues*
1 Independent old	 #1 independent for all types served High market shares up to market leadership High repair depth and margins 	25%
2 Independent new	 #1 independent High market shares in large growing volume markets (e.g. 10% CFM56-7) Alternative repair/workscoping solutions 	35%
3 OEMRO	 High and growing V2500 IAE-FHA volume performed GP7000 LPT MRO Participation in GTF and GEnx MRO 	20%
IGT et al.		20%



IGT et al.

MTU Maintenance has unique abilities to offer both alternative custom-tailored products for all market segments

	Segment	10 years outlook	Share of MRO Revenues*
1	Independent old	 Niche segment (fast declining market) Well positioned to gain market share Growing role of MRO alternatives (MTU^{Plus} Mature Engine Solutions) 	10%
2	Independent new	 Keep or gain market shares as market matures Benefit from migrations Large/increasing shop visit volume Growing EBIT contribution 	40%
3	OEMRO	 Increasing volumes, focus on V2500 and GTF MRO network optimized to also fulfill OEMRO requirements 	30%

25 November 2014 Investor & Analyst Day 46

20%



Summary and Outlook

- MTU's market coverage grows over-proportionally at 11.3% over the next 10 years
- MTU MRO's organic growth, thanks to its diversified portfolio with a strong focus on newer engines, reaching maturity in the coming decade
- MTU Maintenance will remain the MRO provider covering all market segments by offering customized services as independent and OEM network partner
- MTU Maintenance is well positioned to gain market shares and benefit from the market dynamics within the served market segments







Thank you for your attention!

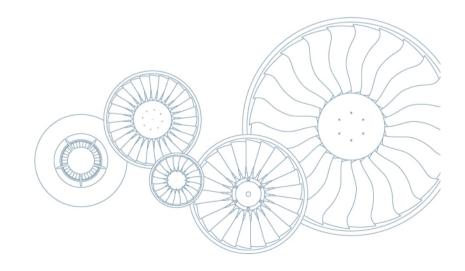




Financials & Outlook

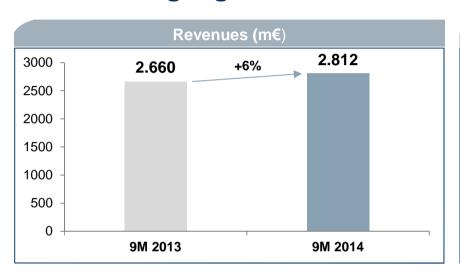
Reiner Winkler, CEO

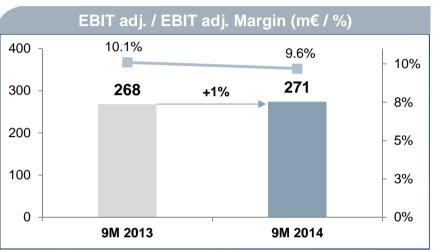
Munich, November 25, 2014

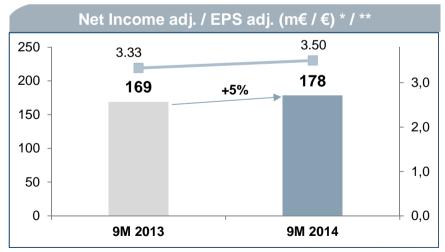


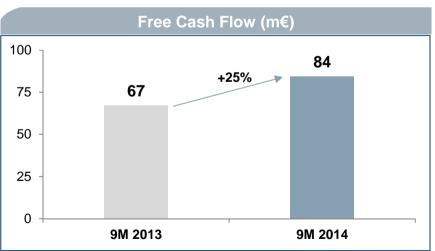


Financial Highlights 9M 2014









^{*} w/o market-to-market valuations of US\$, nickel and options and others ** New underlying tax rate of 30% for 2014



Guidance 2014

in m€	FY 2013 adjusted for MTU Zhuhai	Guidance 2014 July	Guidance 2014 Update October
Revenues	3,574.1	~ 3,650	~ 3,750
EBIT adj.	373.1 10.4%	~ 375	~ 380
Net income adj.	235.7	~ 245	~ 250

- Series revenues expected to increase in the low teens
- Spare parts revenues expected to grow high single digit
- Military revenues to remain flat on the level of 2013
- Commercial MRO revenues expected to be up low single digit
- Free Cashflow is expected at mid double digit (w/o acquisition payments for new programs)

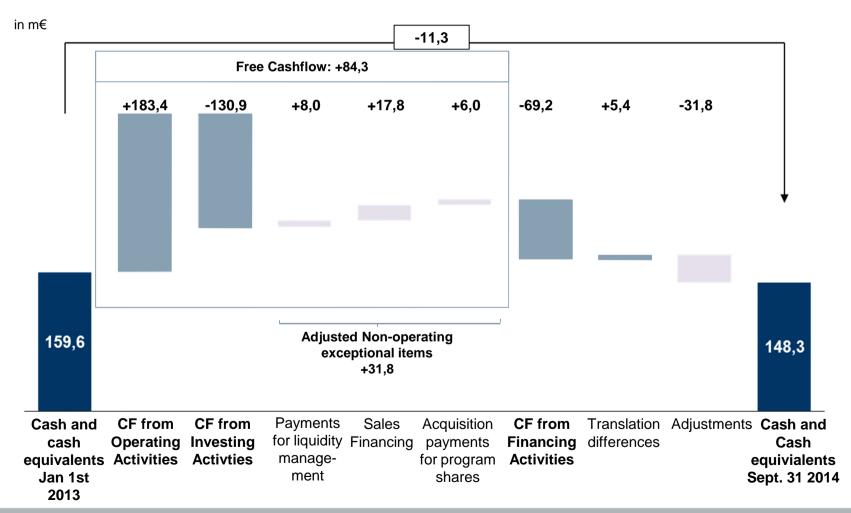


Definition of Free Cash Flow

- Free Cash Flow is determined by combining Cash Flow from Operating Activities and Cash Flow from Investing Activities
- Both components of Free Cash Flow are well-defined under IFRS
- MTU adjusts items which have a financing character or are related to acquisitions of program stakes and thus are not part of the operating performance of MTU:
 - Liquidity management
 - Sales financing
 - Acquisition payments for new engine programs
- All adjustments and breakdown fully disclosed in MTU's annual and quarterly reports
- In the future MTU will show a waterfall chart in the quarterly presentation to further improve transparency



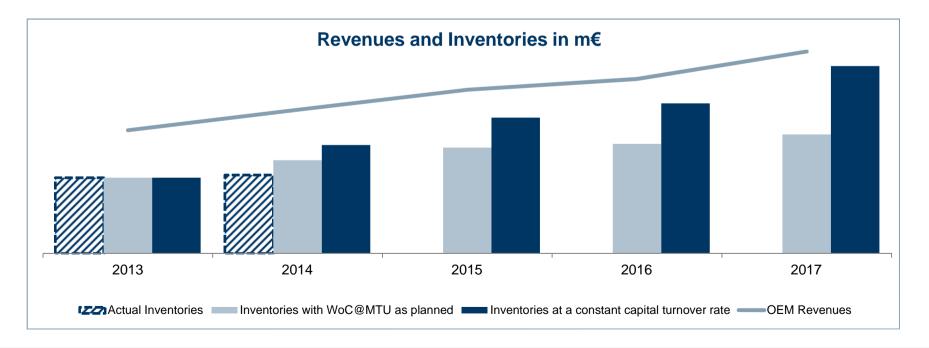
MTU's Cash development January – September 2014





Status "Cash for Future" Project – FCF contribution Launched to Limit Impacts due to challenging Business Environment 2014- 2017

- Target to improve capital turnover rate from 3,5 in 2013 to 4,5 by 2017
- Capital turnover rate already expected to be around 4,4 in 2014
 - → Target to limit inventory growth by 100 m€ on track





"Cash for Future" Project: Examples of Working Capital Optimization

Integrated planning & coordination

Centralized Supply Chain Management Organsiation

Improved production flow

Lead time reduction 3-4% in production and assembly

Reduced provisioning buffer

Optimization of inventory range

Training & Qualification

Comprehensive and customized qualification on WOC Management



New IFRS 15: Revenues from Contracts with Customers

- IFRS 15 targets alignment of IFRS and US-GAAP revenue recognition
- The new standard was commonly issued by FASB and IASB in May 2014
- In Europe it may be applied after EU endorsement (expected Q2/2015)
- Mandatory application in 2017 for EU and US
- Core principle: Revenue recognition shall reflect the expected pricing for exchanged goods or services

All existing contracts of MTU have to be examined

IFRS 15 might impact MTU's

- Treatment of sales concessions
- Treatment of FHA contracts



Head- and Tailwinds 2015

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New engine Sales (Com. OE): High single digit

Spare parts Sales (Com. Spares): Mid single digit

Commercial MRO: High single digit

Slight tailwind from US\$ fx-rate



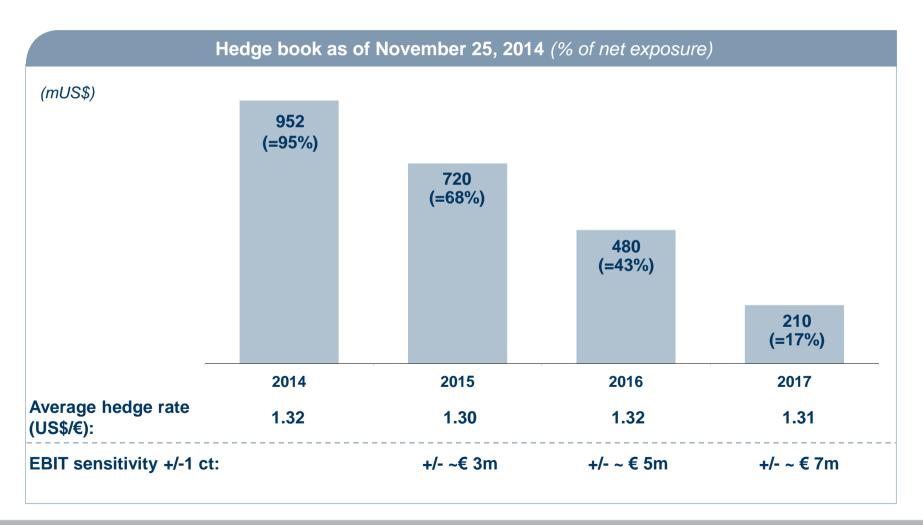
Long term outlook 2014 - 2024

	Investment Phase 2014-2017	Consolidation Phase 2018-2024	
Revenues	Military: Com. OE: Com. Spares: Com. MRO: The state of the st	Military: Com. OE: Com. Spares: Com. MRO: T	
EBIT adjusted	Moderate progression	Margin expansion	
Net Income adjusted	Growth stronger than EBIT adj. (Falling tax rate)	Growth in line with EBIT adj.	
CCR*	Low double digit %	High double digit %	

^{*)} Cash Conversion Rate (CCR) defined as Free Cash Flow / Net income adjusted



US\$ Exchange Rate / Hedge Portfolio





Summary

- **GE9X participation** increases MTU's footprint in the widebody market
- PW800 share strengthens MTU's position in the future business jet market
- R&D program for all GTF platforms on schedule
- Projects for production ramp up well on track
- Improvements of existing engine technology will ensure MTU's ongoing success
- MTU MRO well positioned in changing business environment
- Efficiency program "Cash for Future" with higher impact on inventories
- Free Cash Flow in 2014 significantly better than expected
- Profitability and cash flow improvement targeted by the end of the decade





Thank you for your attention!



Cautionary Note Regarding Forward-Looking Statements

Certain of the statements contained herein may be statements of future expectations and other forward-looking statements that are based on management's current views and assumptions and involve known and unknown risks and uncertainties that could cause actual results, performance or events to differ materially from those expressed or implied in such statements. In addition to statements that are forward-looking by reason of context, the words "may," "will," "should," "expect," "plan," "intend," "anticipate," "forecast," "believe," "estimate," "predict," "potential," or "continue" and similar expressions identify forward-looking statements.

Actual results, performance or events may differ materially from those in such statements due to, without limitation, (i) competition from other companies in MTU's industry and MTU's ability to retain or increase its market share, (ii) MTU's reliance on certain customers for its sales, (iii) risks related to MTU's participation in consortia and risk and revenue sharing agreements for new aero engine programs, (iv) the impact of non-compete provisions included in certain of MTU's contracts, (v) the impact of a decline in German or other European defense budgets or changes in funding priorities for military aircraft, (vi) risks associated with government funding, (vii) the impact of significant disruptions in MTU's supply from key vendors, (viii) the continued success of MTU's research and development initiatives, (ix) currency exchange rate fluctuations, (x) changes in tax legislation, (xi) the impact of any product liability claims, (xii) MTU's ability to comply with regulations affecting its business and its ability to respond to changes in the regulatory environment, (xiii) the cyclicality of the airline industry and the current financial difficulties of commercial airlines, (xiv) our substantial leverage and (xv) general local and global economic conditions. Many of these factors may be more likely to occur, or more pronounced, as a result of terrorist activities and their consequences.

The company assumes no obligation to update any forward-looking statement.

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