# **IHI DEPLOYMENT**

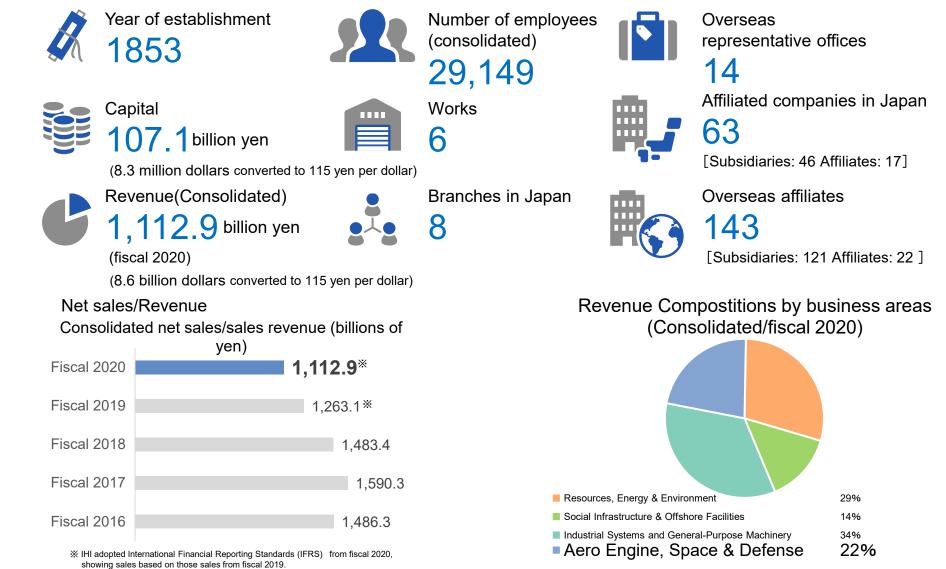


HIROSHI YAMAMOTO GENERAL MANAGER, QUALITY SYSTEM DEPT. IHI CORP.

AESQ – Aerospace Engine Supplier Quality Strategy Group

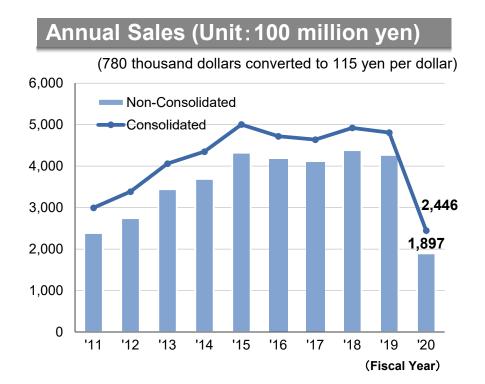
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## 1. Company profile of IHI Corporation

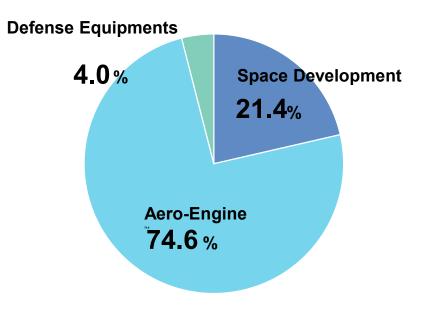


Note : The total may not be 100% owing to the exclusion of "Other" and "Adjustments".

President of Bu	siness Area	Hideo Morita Managing Executive Officer	Operation	<ul> <li>Defense Systems Div.</li> <li>Civil Aero-Engine Div.</li> <li>Space Development Dept.</li> </ul>			
Employees (as of March	(consolidated)	6,765	divisions	<ul> <li>Research &amp; Engineering Div.</li> </ul>			
31, 2021)	(non- consolidated)	4,212		<ul> <li>Manufacturing Div.</li> <li>Life Cycle Solution Div.</li> </ul>			



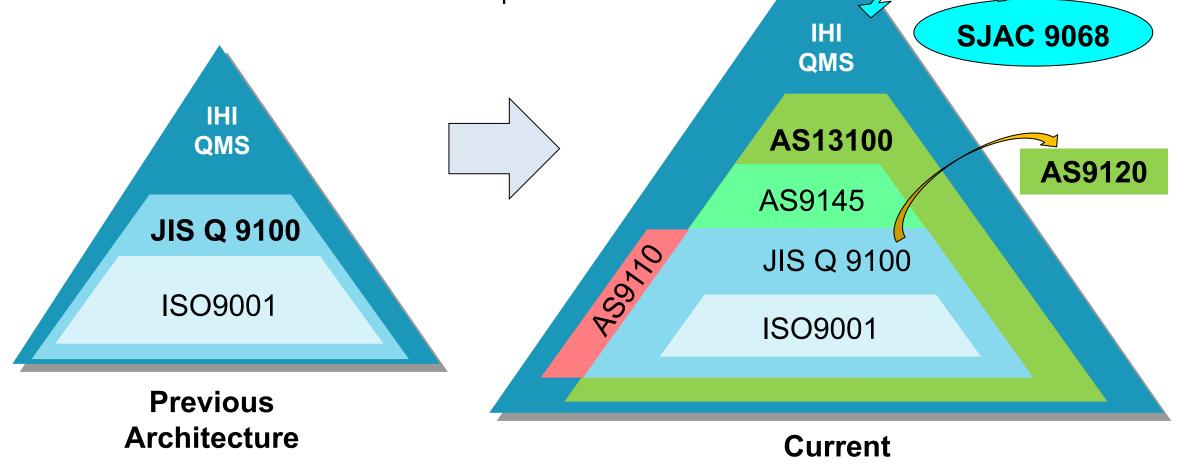
#### Consolidated Sales Ratio (In fiscal 2020)



## 3. IHI Quality Management System Architecture

IHI

We are confronting with great challenges to reform IHI Quality management system which is conformable to new or revised requirements.



**Architecture** 

#### 4. Deployment Strategy Group dashboard

Company	Mileston e 1	Mileston e 2	Mileston e 3	Mileston e 4	Milestone 4b	Mileston e 5	Mileston e 6	Mileston e 7	Milestones
GE Aviation									Milestone 7: AS13100 compliance by supply base
GKN Aerospace									Milestone 6: Training plan executed to supply base
Honeywell									Milestone 5: Training plan executed internally
Howmet								2022	Milestone 4b: Flow down of the Standard to the supply base.
IHI								3,	Milestone 4: Communication plan executed to supply base
MTU									
PCC									Milestone 3: Communication plan executed internally.
Pratt and Whitney								Decer	Milestone 2: Project Plan Identified and Approved by Member Executive. (All have committed to deployment o
Rolls Royce									Dec 2022 but plan to get there can vary.)
Safran									Milestone 1: GAP analysis being conducted. Member company committed to deployment by Dec 2022.

We have reached Milestone 4 so far.

We are aiming for completing remaining milestones by the end of this year.

## 5. AS13100 Deployment schedule

	2021FY											2022	2FY								
	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
	AS	1310	0GAP	analy	sis			AS13	100/R	M GA	P ana	lysis									
														Re	vise (	Quality	/ proc	edure	as ne	eded	
		Cre	ate q	uality	plan			Creat	e / Re	vise (	Quality	/ proc	edure	>							
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										-	Frainir	g Aud	litors	▶	E	xtra in	ternal	Audi	t		
																Cu	stome	r revie	w / A	udit	
										Purc	hasin	g mat	erials	spect	rome	ler etc	.)				
									C	reate	educa	ition r	nateri	al E	Educa	tion /	trainir	g	Ex	tra MF	R∇
S									$\nabla$	ntrod	uction	to IH	l grou	p con	panie	s					
С						(	Create	/ Rev			uction se doo				g Aud	itors	-	Supp	lier A	udit	

We plan AS13100 deployment schedule for internal and supplier, respectively.

#### 6. AS13100 Gap analysis

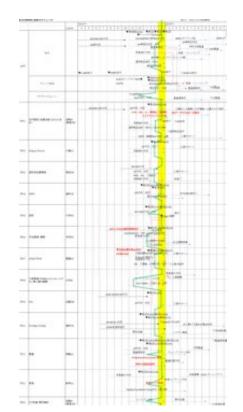
#### (Excerpt of AS13100 Gap analysis)

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	(AS13100 Requir	ement)		(Primar	y Gap analysis)	ea cla	o be v ch ta arify v tion v	sk te vhat

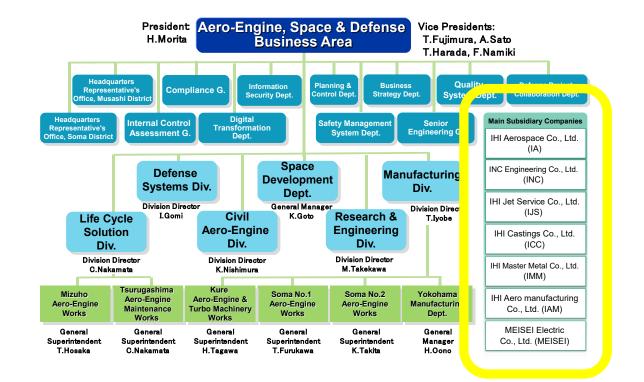
The result of AS13100 Gap analysis has been verified by each task team in order to revise or create internal procedures related to AS13100.

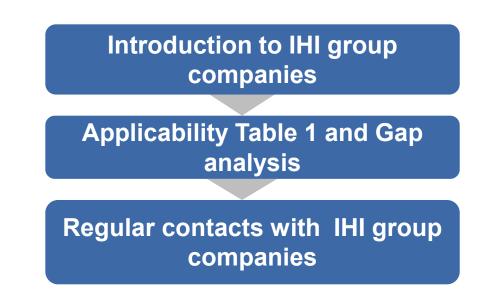
We are organizing a team and promoting the creation of IHI quality management system based on AS13100 Requirement.

Team No.	Role
TF01	General, Internal procedure
TF02	Human factors
TF03	Statistical quality control
TF04	DPRV
TF05	Design
TF06	Supplier control
TF07	APQP/PPAP
TF08	Process control / PFMEA / control plan
TF09	FAI
TF10	Problem solving
TF11	Audit
TF21	Education
TF22	Information and communication technology



#### Each progress has been Monitored monthly





We have been communicating with main subsidiary companies about AS13100 deployment status each other regularly.

