Explanation: 70 mins

Q&A: 45 mins

# Honda VMC Supplier Collaboration project – Phase 2

Please wait a little while until the event starts.

Please turn-off camera and microphone.

※Please enter: "Company name + First name" in chat.

2024.10.28

Asian Honda Co., Ltd. (ASH)

Honda R&D Asia Pacific Co., Ltd. (HRAP)

Explanation: 70 mins Q&A: 45 mins

No.	Item	Time (Minutes)	Presenter
1	Opening speech  Today's purpose	5	HRAP Funakoshi SMG
2	Outline of Honda initiatives  Evolution of Honda's development-process and key measures Business Partner Collaboration Initiatives  Vision for Joint Creation with Business Partners Collaboration environment evolution	20	HRAP CIS Attawit
3	Environment cost and system configuration Administrative Procedures for Starting Use of the environment	20	ASH IT Aikawa
4	Methods for Applying CATIA V6 Practices Deployment plan		HRAP Funakoshi SMG
5	Summary		ASH IT Aikawa
6	Q&A	45	ASH/HRAP/HM ALL
7	Closing speech	5	HRAP Funakoshi SMG

Thank you for taking time out of your busy schedule to attend the information session today.

As part of our manufacturing DX, we have worked with our business partners to develop a strong manufacturing structure.

We are making improvements to issues such as mistakes in information that have been returned, requirements and requirements that have been mismatched prior to the drawing.

In particular, for direct data sharing in CATIA V6 cloud environments, and for digital-based schedule matching and problem matching

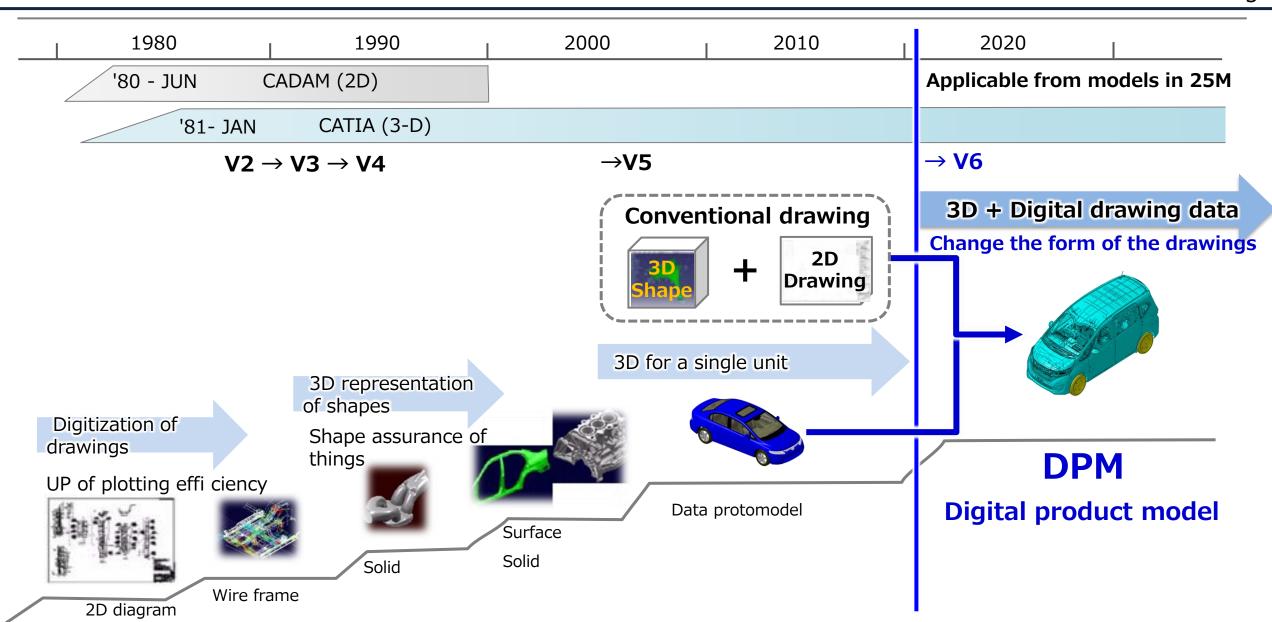
Prompting the process construction is important in achieving operational efficiency improvements.

Today, we will explain how to collaborate with our design using the Digital Collaboration Environment, and the necessary administrative procedures for use.

We plan to begin using CATIA V6 and Digital Collaboration Environment in HRAP around September 2025. For each supplier, please accept CATIA V6 drawings and prepare for delivery.

Explanation: 70 mins Q&A: 45 mins

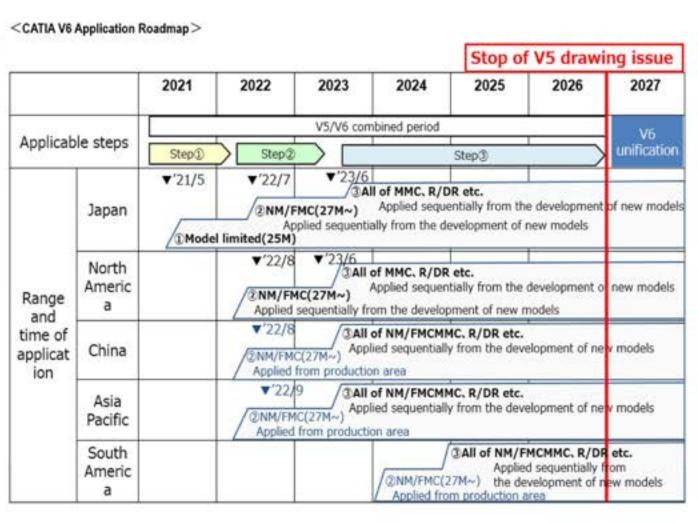
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Drawing form and CAD software are greatly evolving, and it is in the stage of full digital utilization.

#### CAD NEWS which was issued on April 29, 2022.

Applicable	Step 1	Step 2	Step 3
Steps	Introduction Phase	Expansion Phase	All applicable Phase
Start timing	Since May, 2021	Since July, 2022	Since June, 2023
Range of Application	Applied to 25M domestic development models only	Applied sequentially from NMFMC development models from 27M onward	Applied sequentially from newly developed models such as MMC- developed and R/DR-developed models
Honda drawing	Limited application to shed parts	All application	All application
Maker drawing	Limited application to 9 companies	Sequential application	All application



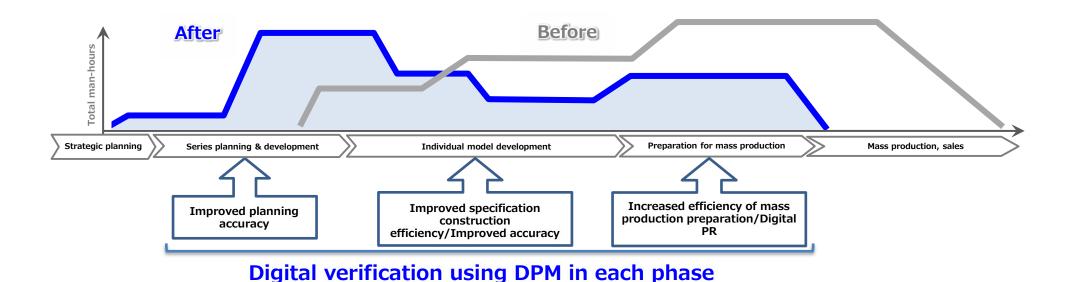
Honda has set new environmental & safety goals for 2025.

- Carbon neutral thru all Honda product and company activities
- Zero death caused by Honda motorcycle/automobile accident

To achieve these, Honda will focus on environment and safety.

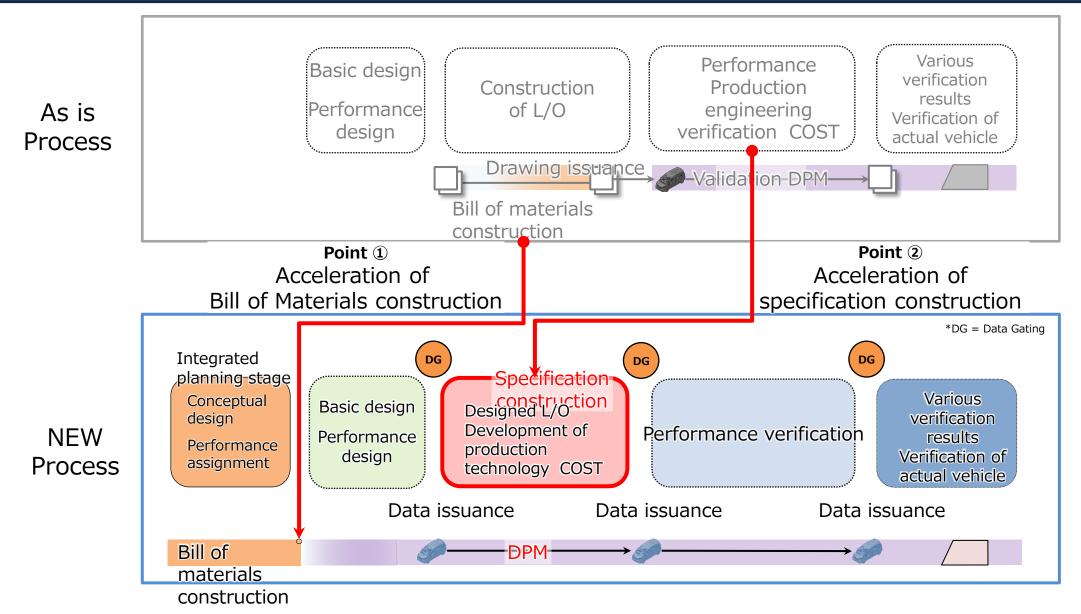
Honda will continue to "solidify the existing business", which is the foundation for meeting our goals.

For automobile development, we have introduced a new series development flow which will allow Honda to increase parts commonality/usage for longer period. Through the execution of digital parts maturation and continuous manufacturability verification & collaboration, errors which cause rework for design can be eliminated and efficiency improved. Mass production quality can be guaranteed prior to drawing issue.

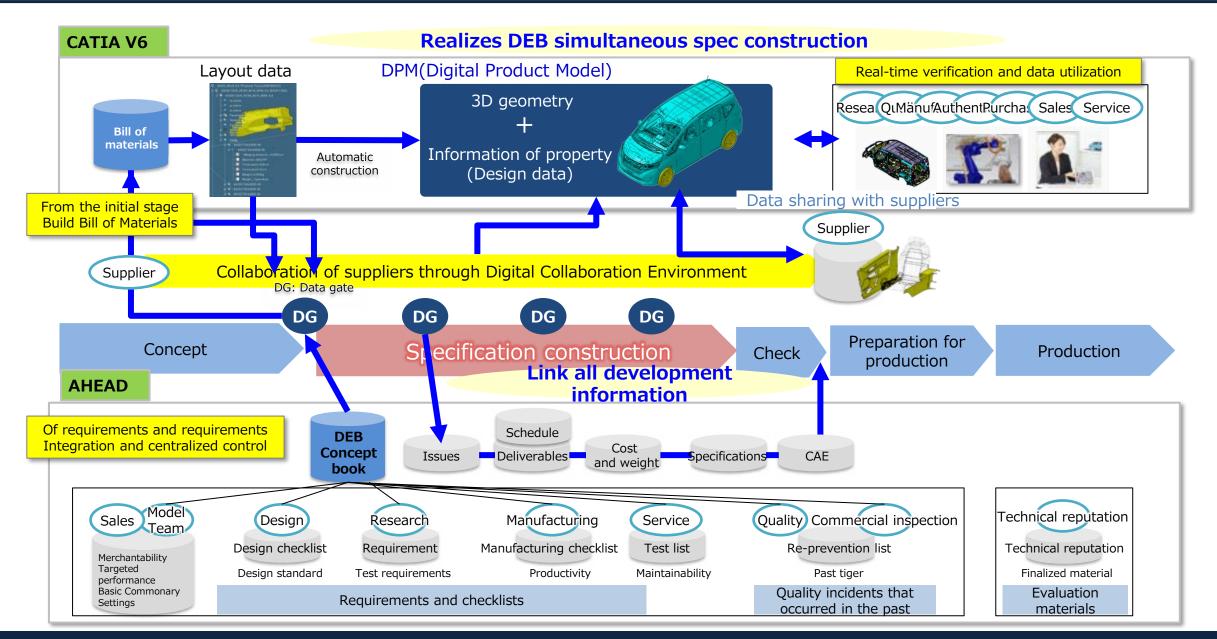


Achieve strong "Monozukuri" thru supplier digital collaboration in DPM-centric environment.

## Evolution of Honda's development-process



Our goal is to evolve from a verification system after drawing to an early specification-building process centered on DPM.



## **Measure (1): DPM automatic construction**

→ Quickly create data to be presented to suppliers without omission

## **Measure 2: Evolution of DWG**

→ Improvement of accuracy and efficiency when utilizing information

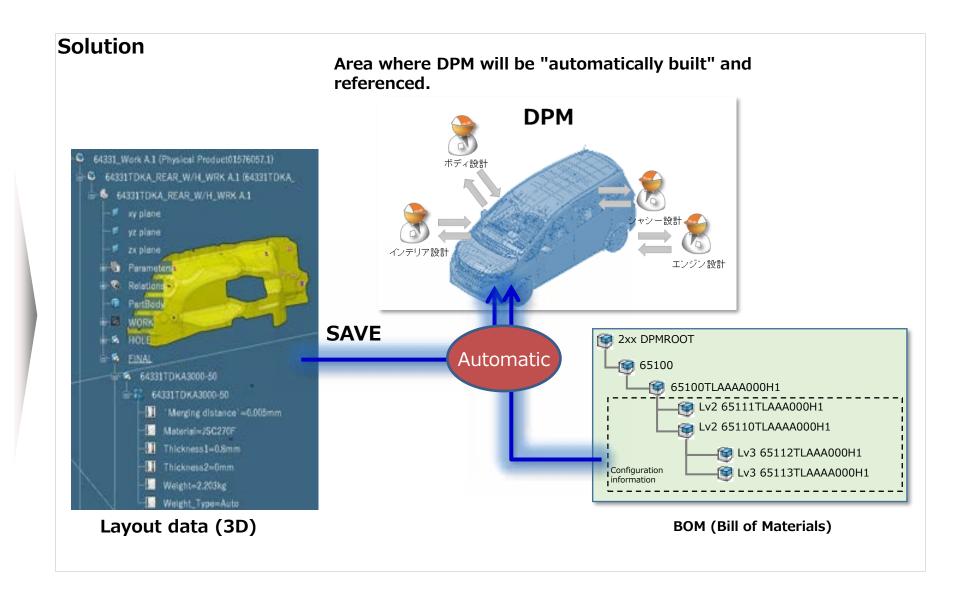
## Measure 3: Distributed data and evolution of data flow

→ Reduction of data conversion man-hours and support for various systems/format

## Measure 4: Collaboration environment evolution

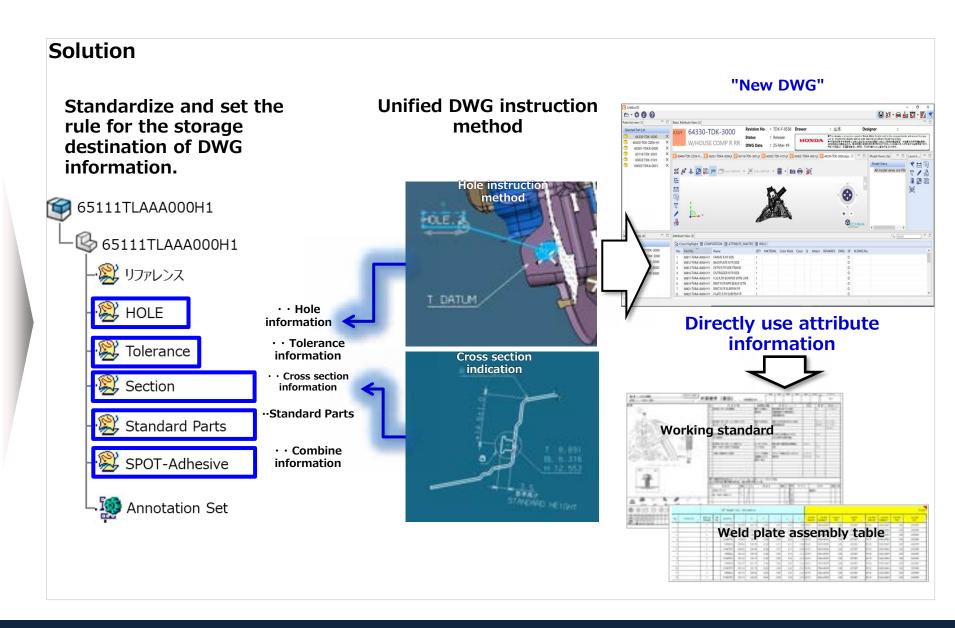
→ Efficient data sharing with suppliers and visualization of exchange history

- DPM is not delivered until after drawing is issued.
- Cannot check Layout data in timely manner.
- Due to DPM verification delays, data has to be reworked.



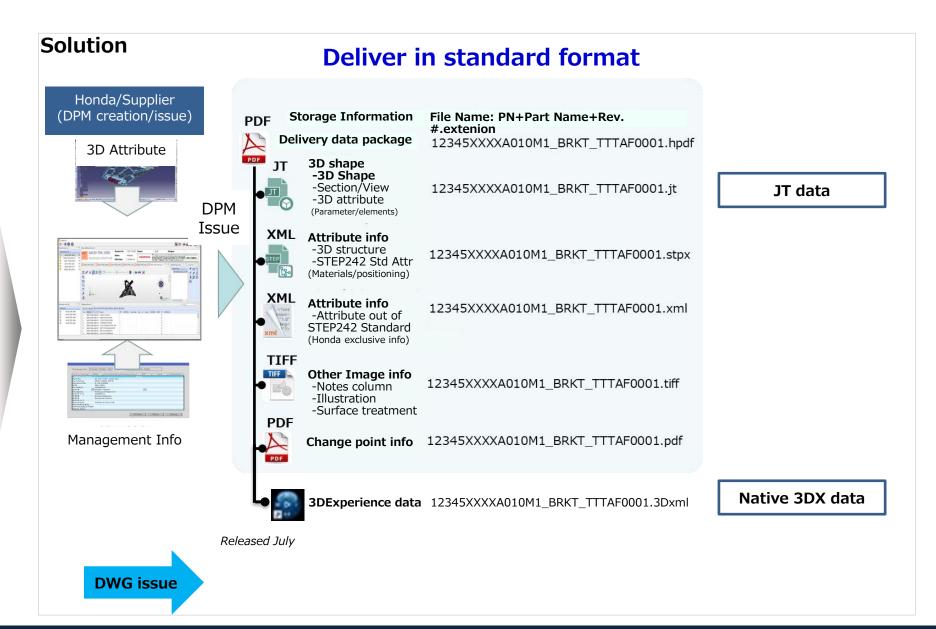
#### **Current concern**

- Modeling and drawing rules are different depending on the regions, functional group and PIC.
- It takes time to understand the intention of the previous PIC when reusing.
- It takes time to inspect the drawing.

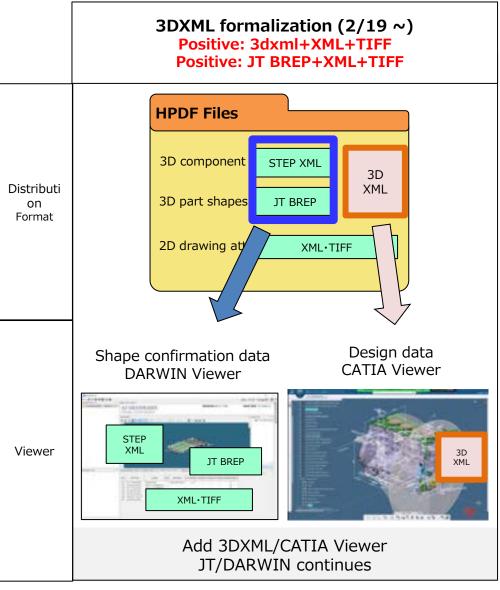


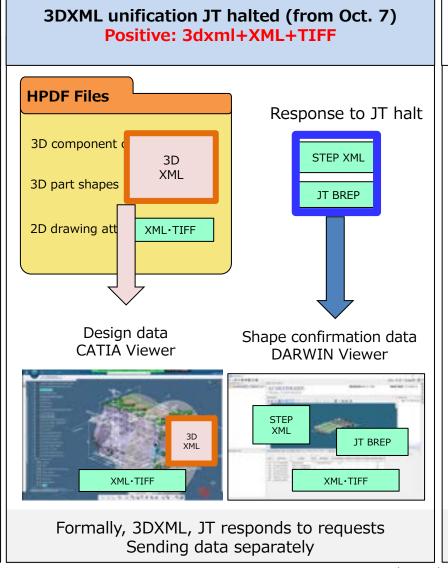
#### **Current concern**

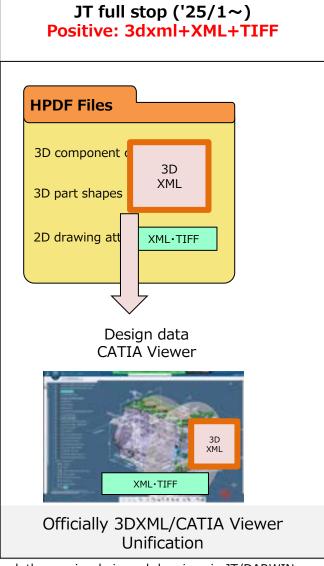
- Data is only available in CATIA.
- CATIA data needs to be converted each time it is delivered.
- Data volume is too heavy, so it is difficult to handle.
   Data delivery is also inefficient.



## Changes in Drawing Format



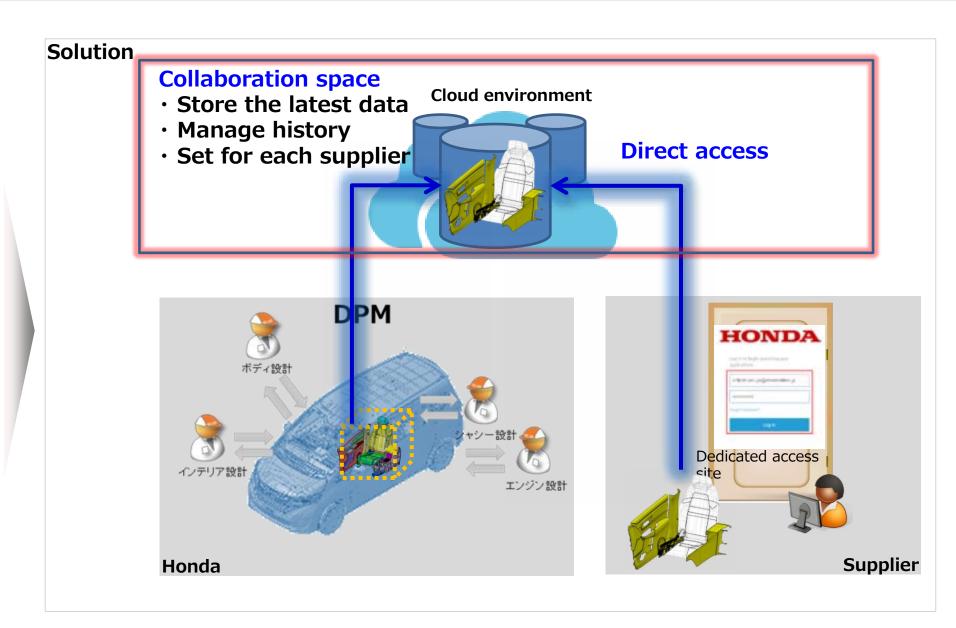




\*\*Please check the previously issued drawings in JT/DARWIN.

#### **Current concern**

- Late sharing of L / O and surrounding parts to suppliers
- It is unclear whether the presented data is up to date.
- Rework occurs by referring to old data.
- Man-hours for data sharing and transmission / reception are large.
- No history of exchanges remains.



# Agenda

Explanation: 70 mins Q&A: 45 mins

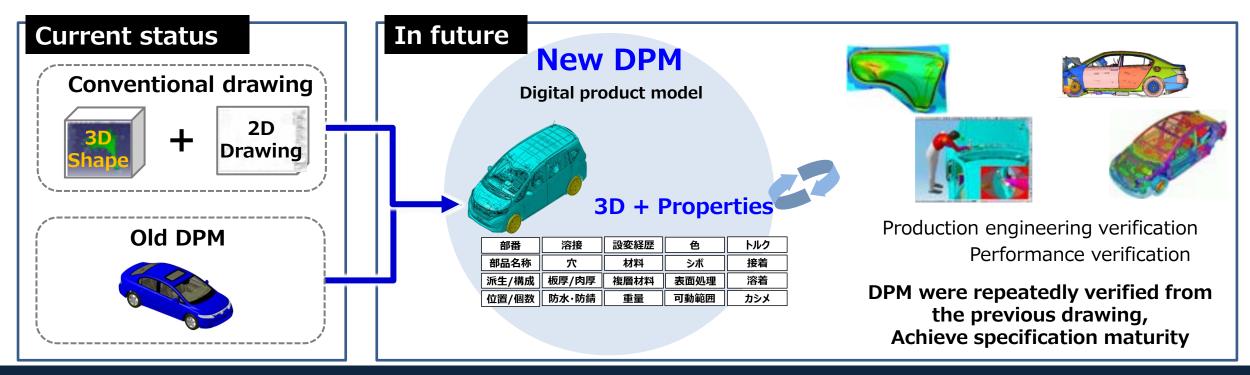
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7	7 Closing speech 5 HRAP Funakoshi Si		

At present, the main issues in collaboration with business partners are

- Delay in reflection of supplier skills
- ·Rework due to inadequate sharing of information, such as reference to old surrounding data
- Waste man-hours such as information copying and repeated input

We believe that improvement is indispensable.

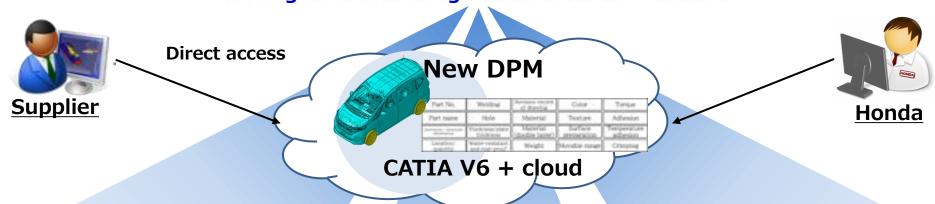
To solve this problem, we have developed a new DPM that digitizes the drawing data, and have developed and verified the product with our suppliers. We will do this efficiently.



We will solve conventional problems by building a new DPM that digitizes the drawing data.

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### **Strong manufacturing taishitsu without rework**



- 1 Information sharing accuracy + speed improvement 2 Improvement of work efficiency for design PIC

**3 Supports remote work style** 

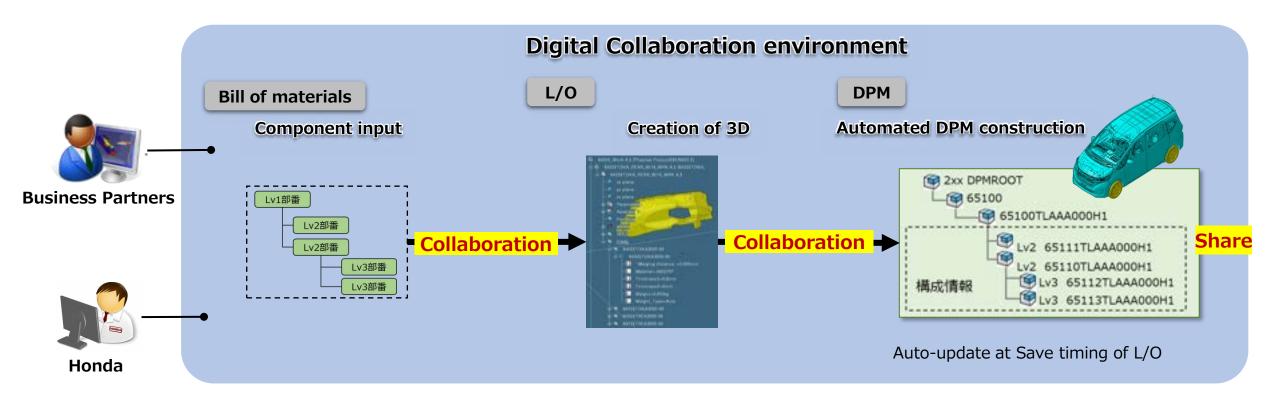
- For early specification maturation, from the L / O stage efficiently build DPM and share quickly.
- Development information (schedule / concern) Can be shared accurately and quickly.

- Eliminates the double work of DPM construction and drawing.
- Workload before DWG issue can be distributed.
- With new DPM / standard format, improve convenience of data utilization at downstream data post-process.
- Compatible with Honda development Using the same method and rules regardless of region or country.
- No work location restrictions.
- Creating time by reducing travel.
- Reduction in business trip expenses (stay expenses, transportation expenses, miscellaneous expenses).

We aim to maximize the benefits by having our suppliers use this digital collaboration environment widely.

#### [High-speed sharing of 3D by DPM auto-build function]

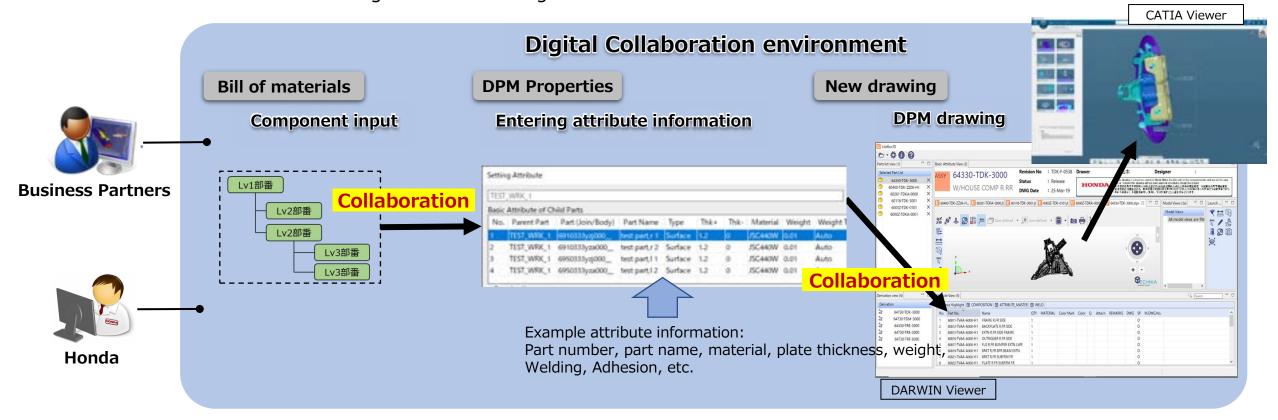
Component information entered in the Digital Collaboration Environment is linked to L/O data, and shared data can be created at high speed by DPM auto-build function that creates DPM data from L/O data.

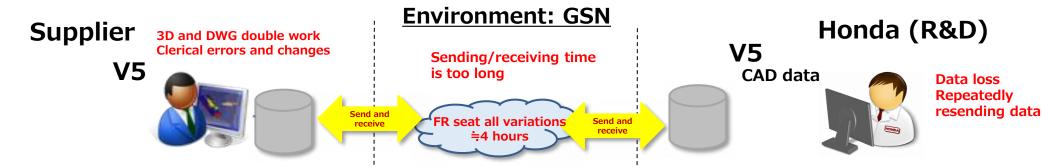


## 2 Improvement of work efficiency for designers

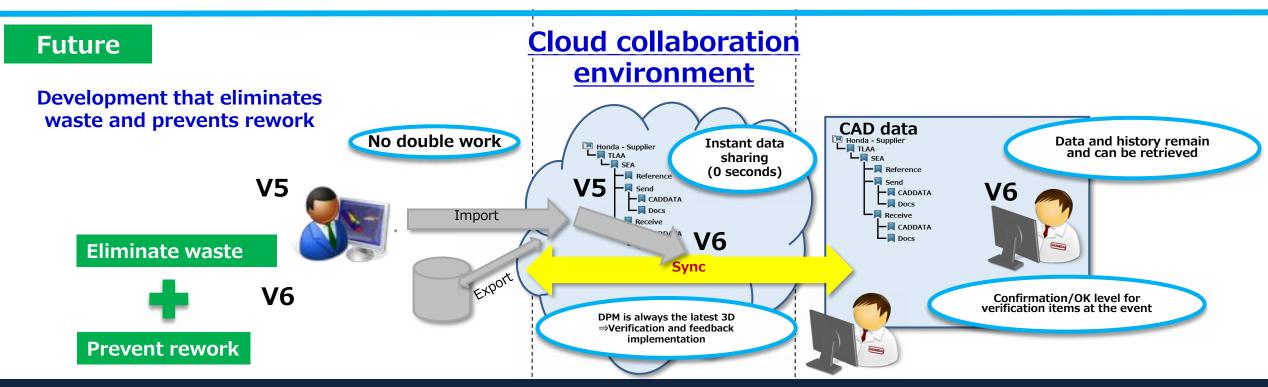
#### [Produce efficient DPM and drawings by digitizing attribution data]

- •The "box" for attribute input is automatically created from the component information entered in the digital Collaboration environment.
- Input the attributes sequentially according to the specification decision.
- ·You can use this information to generate a drawing.





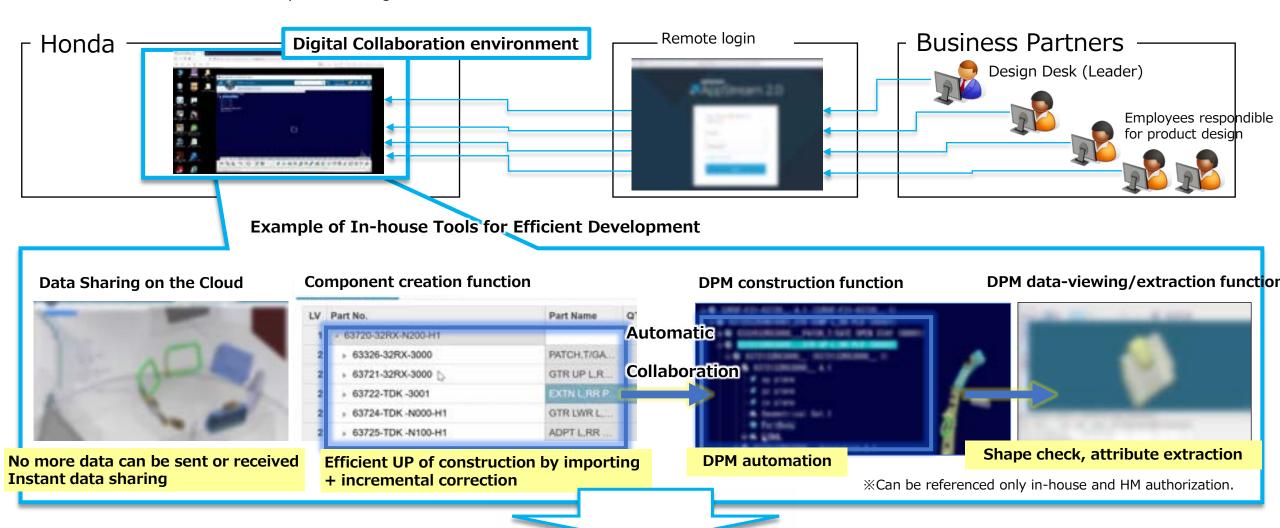
Information sharing does not go well, inefficiency and wasteful work occur, and changes occur due to omissions of necessary requirements.



You can access the collaboration environment on the cloud in-house, share CAD data, Development information and perform data construction work.

#### **Digital Collaboration environment:**

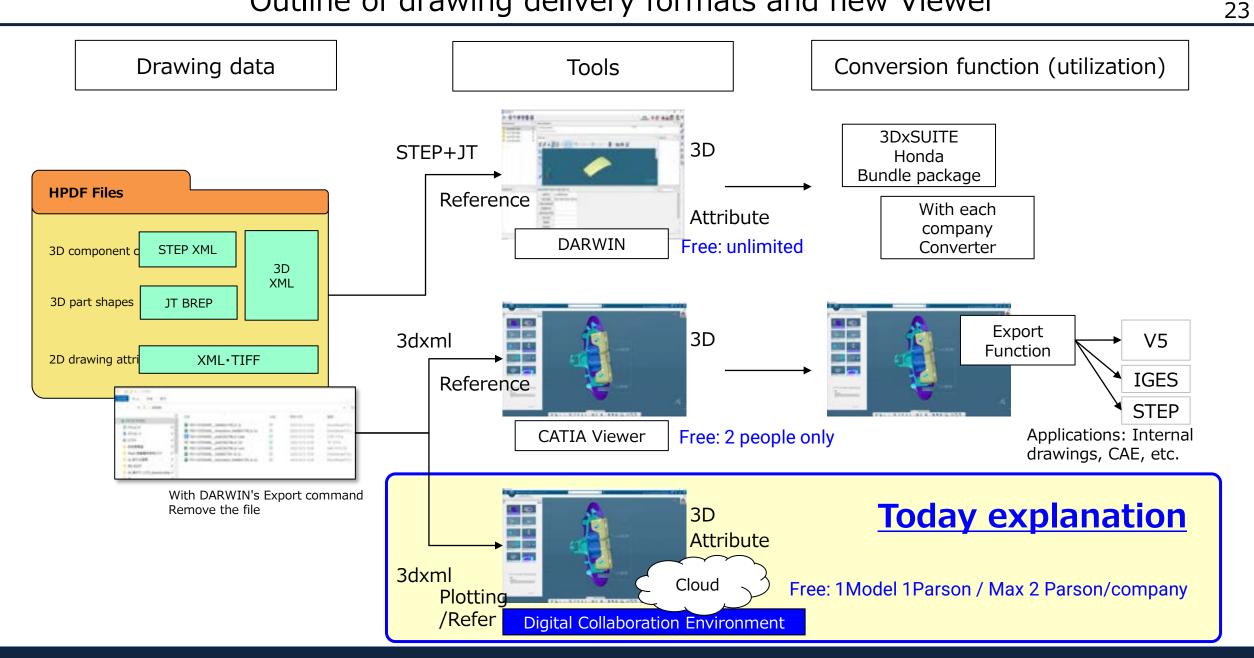
Environment in which business partner designers co-create with Honda on the cloud while still in their own offices



Experiment with business partners using in-house Honda tools to improve development efficiency.

Then, lead to study of collaboration process.

## Outline of drawing delivery formats and new Viewer



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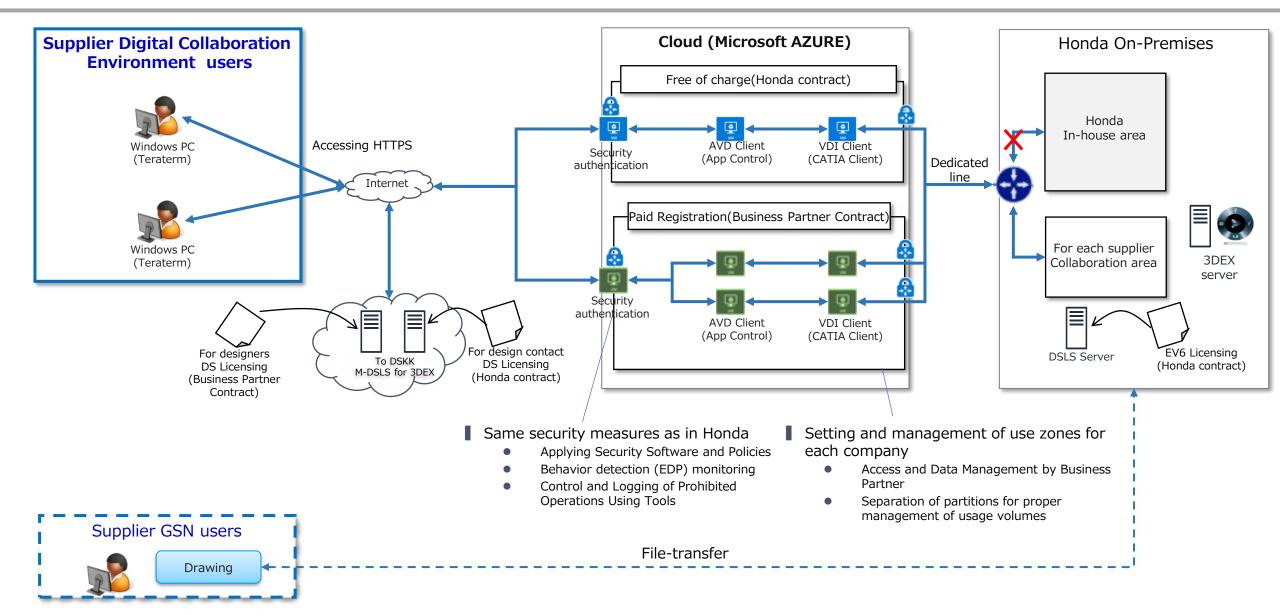
25

## **■ Cost rules:**

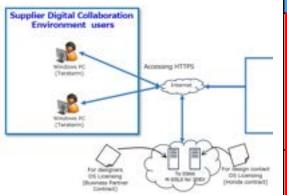
1 person per M/L for 1 model --> free of charge, Max 2 person per company --> free of charge If needed more, supplier will be responsible for cost

Project	Free of charge (Honda's responsibility)	Charge to supplier (Supplier's responsibility)
A	1 Person	2 People 3 People More ~
B	1 Person	
C **	_	1 Person

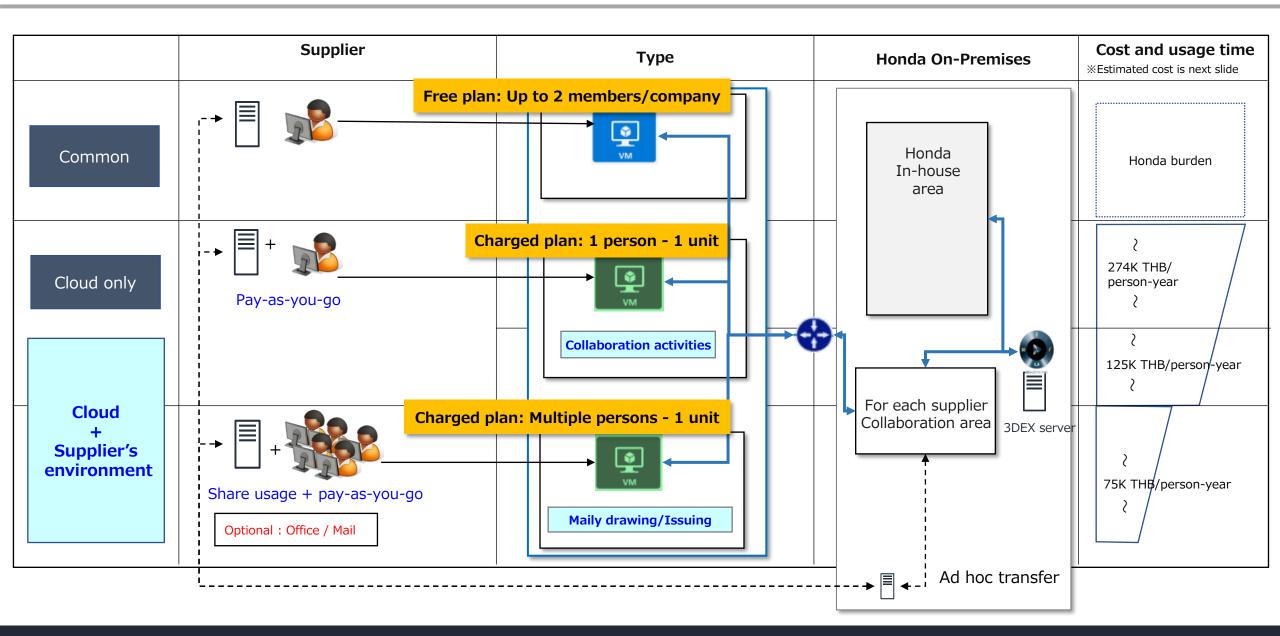
## Digital Collaboration Environment configuration



Make sure that the business partner's internal environment and the network for accessing satisfy the conditions below, including DARWIN 3D.



	Hardware	Device	Notebook PC or workstation	
- Ha		CPU	Intel Core-i5 equivalent	
		Memory	8GB or higher	
	iaraware	DISK	HDD/SSD	Prepare the capacity according to the amount of data to be transferred.
_		Graphic	OpenGL version-2 or later graphics adapter Graphics memory 512MB or higher	Onboard graphics enabled
		OS	Windows 10 64	Windows 32bit Not Supported ARM processor not supported (e.g. Surface Pro X)
!	Software	Other	Microsoft Visual C++ Redistributable for Visual Studio 2015	For Bulk Deployment with Lite3D Installer <a href="https://www.technia.com/support/software-downloads/#technia">https://www.technia.com/support/software-downloads/#technia</a> For individual downloads <a href="https://www.microsoft.com/en-us/download/details.aspx?id=48145">https://www.microsoft.com/en-us/download/details.aspx?id=48145</a>
		Line Type	Internet line	
	Network	Bandwidth	Minimum Bandwidth 15Mbps/User for CAD Usage as a Azure Cloud	This is the bandwidth required from a business partner to the Internet exit.  Classification by usage (CAD usage is classified into POWER)  https://docs.microsoft.com/ja-jp/windows-server/remote/remote-desktop-services/remote-desktop-workloads  Bandwidth (for applications classified as POWER, the lowest 15Mbps is recommended)  https://docs.microsoft.com/ja-jp/windows-server/remote/remote-desktop-services/network-guidance?context=/azure/virtual-desktop/context/context#applications
		Delay	Less than 50ms	As it varies depending on the environment, please check with the network check tool (next page)
		Firewall	Details will be provided at a later date	Cloud URL, Ports



Please select a plan according to the actual usage of the supplier.

## Cost for charged plan and Collaboration environment spec

	Supplier Collaboration	on environment user
Item	Window person of design (Max. 2)	Other than the left side
Cloud environment	Honda burden	Supplier Burden
Enovia V6	Honda burden	Honda burden
CATIA V6	Honda burden	Supplier Burden
Development information (task management)	Honda burden	Supplier Burden
Development information (schedule management)	Honda burden	Supplier Burden

Item		Payee	Expenses	Detailed	Description	
All	Basic charge	Honda	*9,000/set	Environment disbursement, registration, and management	Application processing, application management, new payout, suspension of use, configuration management/monitoring, maintenance	
	(Monthly)	Honda	¥2,000/person (fixed)	QA/ failure response	QA failure response via help desk	
!				Management tool	Incident management, information distribution	
				Windows 10/11 Enterprise E5 1 unit/person		
	Microsoft	Calaa aaaat	Please ask Sales agent	Enterprise Mobility + Security E3 (for client) 1 unit/person		
	SW licensing costs	Sales agent	(fixed)	Microsoft 365 Apps for enterprise 1 unit/person *For Shared plan, this li	cense is Optional	
				Exchange Online Plan2 1 unit/person *For Shared plan, this license is Optional		
Could environment	Cloud Instances Usage fee	Sales agent	Please ask Sales agent (Pay-per-use)	<usage environment=""> Instance Certification machine: "Standard B2S Linux(2vCPU(s),4GB RAM),Standard Managed Disk E4(32GB RAM) × 1" · · · 1 unit/ company AVDClient: "Standard D4v4 Windows10(4vCPU(s)、16GB RAM),Standard Managed Disk E10 (128GB RAM) × 1 · · · 1 unit/user VDIClilent: "Standard_NC4as_T4_v3 4vCPU(s)、28GB RAM、Standard Managed Disk E10 (128GB RAM) × 3" · · · 1 unit/user Additional Storage  "Azure Files(100GB)、Azure Backup(difference)(500GB) · · · 1 unit/user Others  Microsoft Defender for Cloud · · · 1/device + Cloud internal communication fee(30GB) · · · 1 unit/user</usage>		
CATIA V6	DS CATIA V6 License costs	Sales agent		If you already have DS Licenses: Register the licenses to managed DSLS tenant for supplier  If you do not have DS Licenses yet.: New purchase or Migration from V5 license  MES and TAD are mandatory, PCS (IFW and CSV) are not required  MES Necessary for L/O, 3D modeling, kinematics creation, DPM construction  TAD Necessary for creating FTAs (dimensions / annotations) in 3D		

Rate: 1USD=36.9THB 1JPY=0.23THB

Use case	Exclusive	Shared plan	
Usage plan	Pay-as-you-go + 1 wo	Pay-as-you-go + 1 workstation with 5 users	
Basic charge (GUID,AHEAD)	<b>30,360 THB</b> ¥11,000 *12		<b>10,488 THB / person</b> (¥9,000+¥2,000*5)*12/5
MS SW Licensing	20,079 ТНВ		10,426 THB / person (Option Ms office and Mail box:+9,653 THB)
CATIA Licensing	Prepared by supplier		Prepared by supplier
Cloud Instances Transactional Pricing	Pay-as-you-go (annual): <b>223,767 THB</b> Example: 14 hours $\times$ 240 days = 3360 hours	Pay-as-you-go (annual): <b>74,736 THB</b> Example: 3 hours x 240 days = 720 hours	Pay-as-you-go (annual): <b>54,511 THB</b> Example: 1.5 hours $\times$ 240 days = 360 hours
Annual Cost	274,206 THB	274,206 THB 125,175 THB	

\*This cost is for just reference.Because the cost depend on contract between supplier and vendor

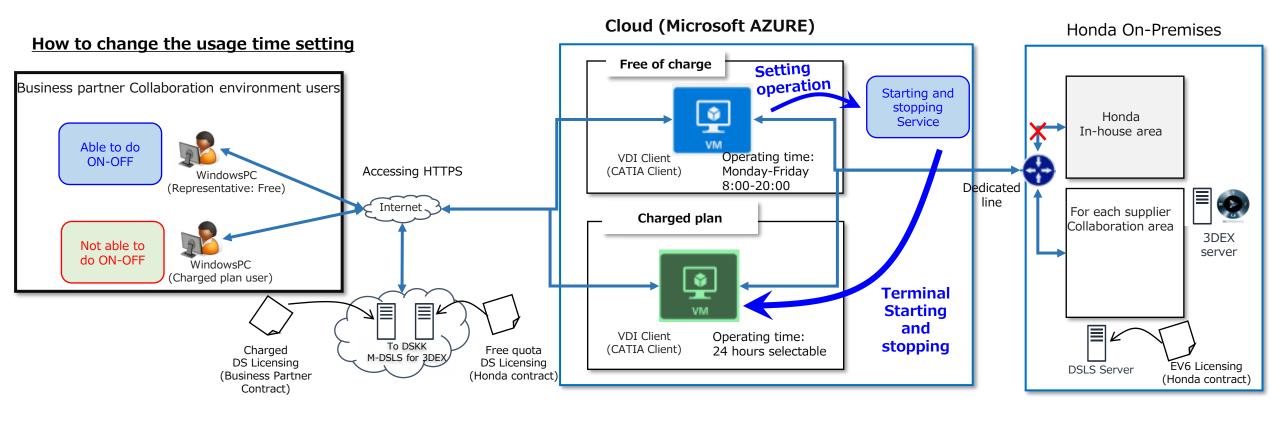
## Preparation for Cloud and V6 licenses

•To use Honda Supplier Collaboration environment at the expense of a business partner, the following licenses must be prepared by the business partner.

Cloud environment	
AZURE Subscription ID	1. Contact Japan Business Systems Asia Pacific Pte. Ltd. Please consult "Issue Azure Subscription ID and Purchase MS Software License" for Honda digital Collaboration. (*)
MS licence	(*) About terms of use and costs, contact Sales agent.  Contact: <a href="mailto:vmc-ap@jbs.com">vmc-ap@jbs.com</a> , Email Subject: [Honda Business Partner Collaboration Environments]
	2. Once "Azure Subscription ID, and MS Licensing" are delivered (*) from JBS to Honda Tenants, please inform the supplier help desk about Azure subscription ID and MS licensing information.  (*) By registering AZURE subscription ID and license purchased by the supplier with Honda tenant, it will be used to link to the user at the time of application.

DS Licensing	
If you have CV6 licensing	<ol> <li>Contact the distributor who purchased DS license for "Transfer License Registration to Managed-DSLS Tenants for Business Partners".</li> <li>After the license transfer to Managed-DSLS is complete, contact Honda Supplier Help Desk.</li> </ol>
For CV6 unlicensed	<ol> <li>Contact your DS licensing distributor with "DS licensing for Honda digital Collaboration".         If you do not have a V6 license: Purchasing or migration from V5 license         Mandatory licensing is MES, TAD. PCS(IFW, CSV) is not required in Honda supplier collaboration environments.         REFERENCE DS LICENSING CONFIGURATION URL: https://www.3ds.com/terms/product-portfolio/licensed-programs/     </li> <li>Once you have purchased your DS license and registered your managed DSLS for your business partner with your DS license, contact Honda Supplier Help.</li> </ol>

Methods	Definitions							
pay-as-you-go	It can be used at any time in 24h by setting the operating hours of the terminals.							



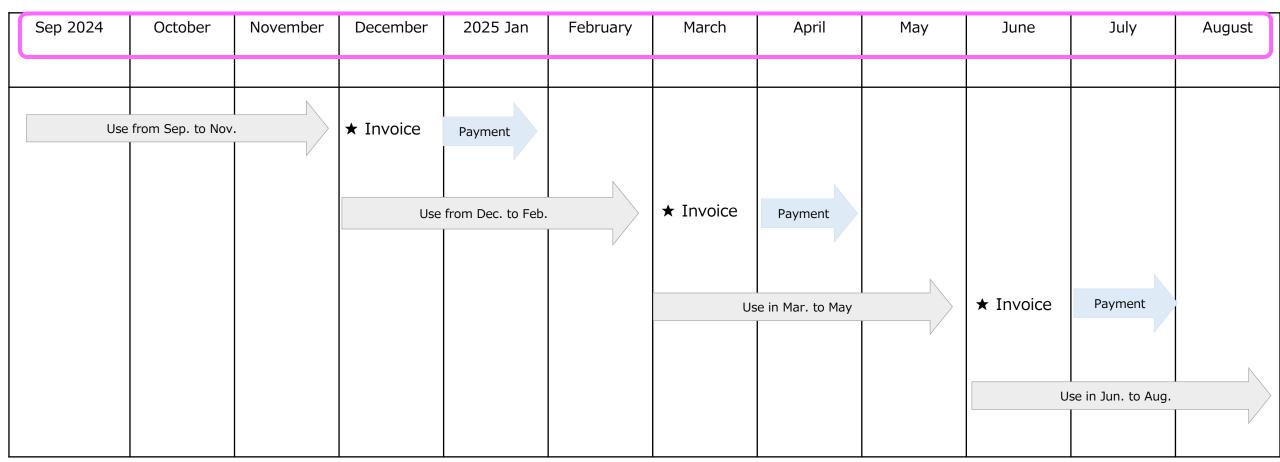
## How to charge for "basic charge"

Timing: Charges are made four times a year (June, September, December, March)

Invoice Methods: Honda confirms the payment amount prior to the first month of the invoice, and Honda issues the invoice to the account at the end of the month of the invoice.

Payment: The counterparty makes payment within one month of receipt of the invoice.

Late Payment: If the late payment exceeds one (1) month, a late payment fee will be charged (the late payment fee will be charged at the next billing month).



For the basic charge, Honda will issue an invoice every three months and payment in the next month.

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## List of application-related documents

		Change													1									
Classification					New contract		New Add user		Delete User		Change Permissions			Shared plan				Means of		Submission Form				
													Change Office/Mail Option		Change number of user					submission		Submission Form		
		Deliverables		Free	Charge d	Free	Charge d	Free	Charge d	Free to Charged	Charged to Free	From Yes to None	From None to Yes	Add Non- Office/ Mail Option user	Add Office/ Mail Option user	Delete Non- Office/ Mail Option user	Delete Office/ Mail Option user	Change Assigne d worksta tion	E-Mail S	Send by Post	PDF	EXCEL	Origina paper	
	Contract	1	Honda Cloud Development Environment License Agreement	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-		0			0	
Per Compa ny	Confidentiality	2	Confidentiality check sheet	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	0			0		
		3	Confirmation sheet of teleworking rules	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	0			0		
Per User	Development guest registration	4	Confidentiality Pledges for Developer GE	•	•	•	•	=	-	-	=	-	-	-	-	-	-	-	0	0	0		0	
	Cloud subscription	5	Public key (*.pub)	•	•	•	•	=	-	-	=	-	-	-	-	-	-	-	0					0
	Confidentiality	6	Confidential training record	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-	0			0		
	Cloud subscription	7	Application for Digital Collaboration Environment User Registration	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0		0	0		
Other	LICENSE	8	CATIA V6 authentication-key (*. LIC Files)	-	•	-	•	-	-	•	-	-	-	-	-	-	-	-	0					0
		9	Microsoft Licensing Info (Mail)	-	•	-	•	-	-	•	-	-	•	-	•	-	-	-	0					0
		10	Microsoft license deletion info (Mail)	-	-	-	-	-	•	-	•	•	-	-	-	-	•	•	0					0

#### [Send data to e-mail address]

HRAP Business Partner Digital Collaboration Help Desk Telephone: 065-5076490, 065-5076567 HRAP\_VMC\_HELPDESK\_SUPPLIER@honda.th.com

[Mailing address of original paper]

14 Surasak Rd, Silom, Bang Rak, Bangkok 10500 Asian Honda Motor Co., Ltd. To: Kenji Aikawa

#### **Company registration**

## **License Agreement**



Contract agreement between Honda and supplier How to get:

Step1. Download from Sharepoint

Step2. Supplier review the agreement

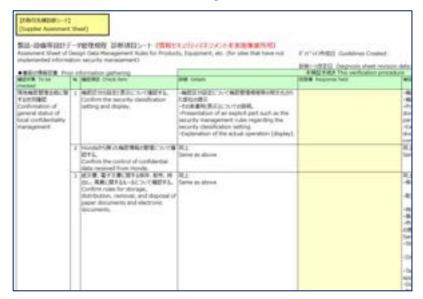
Step3. If OK, Supplier provide the below

- -Company name
- -Address of company
- -Information of Signer

Step4. Honda will send document by post

How to submit : Send Original paper by post

**Confidentiality check sheet** 



Assessment Sheet for supplier's security rule How to get: **Download from Sharepoint** How to submit : Send Excel file by e-mail

**Confirmation sheet of teleworking rules** 



Assessment Sheet for supplier's security rule How to get: **Download from Sharepoint** How to submit : Send Excel file by e-mail

#### [Send data to e-mail address]

HRAP Business Partner Digital Collaboration Help Desk Telephone: 065-5076490, 065-5076567 HRAP VMC HELPDESK SUPPLIER@honda.th.com

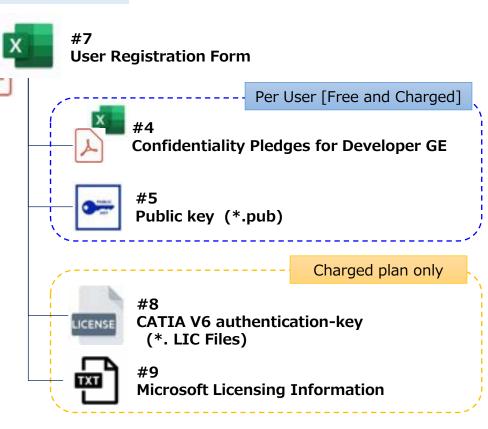
#### [Mailing address of original paper]

14 Surasak Rd, Silom, Bang Rak, Bangkok 10500 Asian Honda Motor Co., Ltd.

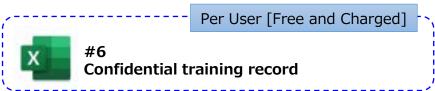
To: Kenji Aikawa

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### **User registration**



#### After joining confidential training



### [Key Notes]

### -#7 User Registration Form

Please get signature from the manager of HRAP designer before submitting

### -#4 Confidentiality Pledges for Developer GE

Please attach a copy of ID card/Passport with sign

#### -#5 Public kev

Please generate public key for each user (\*Please download manual to create the public key from Sharepoint)

-#8 CATIA V6 authentication-key, #9 Microsoft Licensing Information Please get these information from Sales Agent

### -#6 Confidential training record

After receiving user registration form, HRAP will hold confidential training. Please join the training, then share the record to us.

### -How to get #4/#7 form

Download from Sharepoint

#### -How to submit

Send original paper by post: #4

Send data by e-mail: #4, #5, #6, #7, #8, #9

#### [Send data to e-mail address]

HRAP Business Partner Digital Collaboration Help Desk Telephone: 065-5076490, 065-5076567 HRAP VMC HELPDESK SUPPLIER@honda.th.com

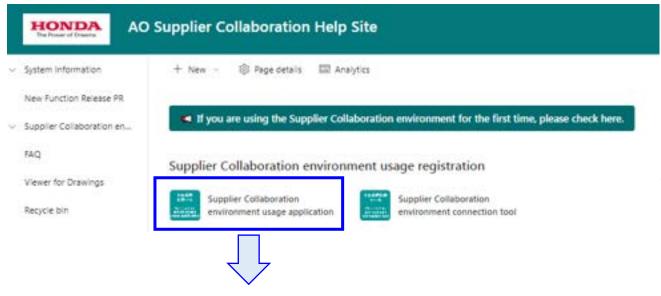
#### [Mailing address of original paper]

14 Surasak Rd, Silom, Bang Rak, Bangkok 10500 Asian Honda Motor Co., Ltd. To: Kenji Aikawa

### Storage of application-related documents

The contact person of the supplier should download various documents and share them within your company.

AO Supplier Collaboration Help Site (Link)



### Supplier Collaboration environment usage application

#### 1.Complete application format

We will release a set of application document and application procedures for using the digital co-creation environment.

Contact Information: If the Help Site is not accessible

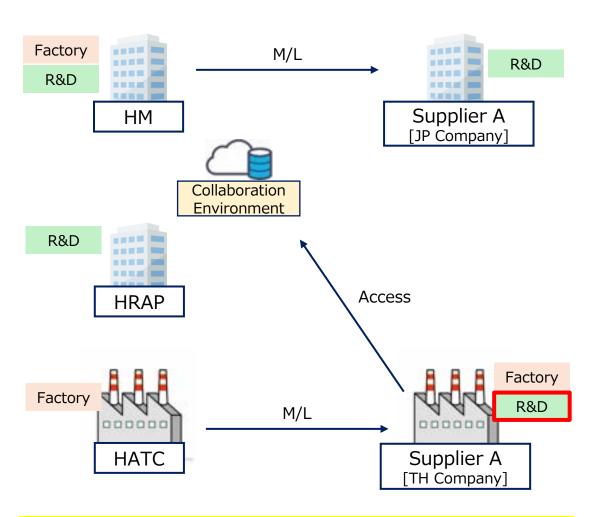
Please contact AO VMC Supplier Helpdesk

E-mail: HRAP VMC Helpdesk Supplier@honda.th.com

- 【Application Form Master】Supplier Collaboration Environment.zip
  - 01\_Honda Cloud Development Environment License Agreement
  - 02\_Confidentiality check sheet
  - 03\_Confirmation sheet of teleworking rules
  - 04\_Confidentiality Pledges for Developer GE
  - 05\_Public key
  - 06\_Confidential training record
  - 07\_Application for User Registration
  - Manual to fill application documents.pdf

No	Title	Format	Link
01	【Application Form Master】 Supplier Collaboration Environment Form	Zip	<u>Download</u>

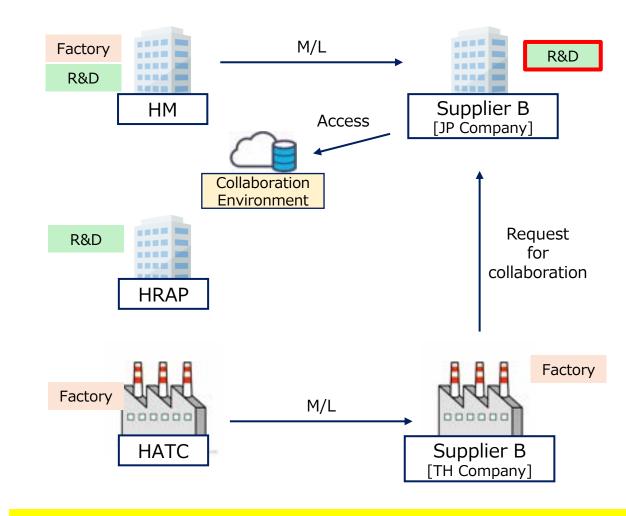
### Case) Supplier's R&D function in TH company



### -Please submit application form by TH Company

-TH Company can use "free of charge" until 2 person depends on M/L

### Case) Supplier's R&D function in JP company

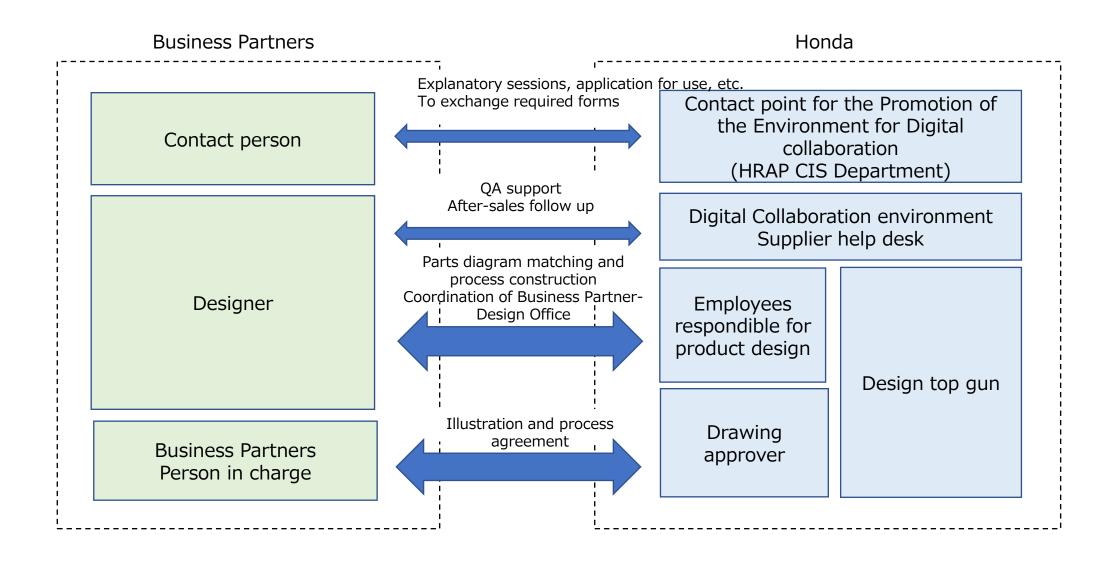


-If JP Company already use the environment, **No need to submit application form** -JP Company can use "Free of charge license" until 2 person depends on M/L

# Agenda

Explanation: 70 mins Q&A: 45 mins

No.	Item	Time (Minutes)	Presenter
1	Opening speech  Today's purpose	5	HRAP Funakoshi SMG
2	Outline of Honda initiatives  • Evolution of Honda's development-process and key measures  Business Partner Collaboration Initiatives  • Vision for Joint Creation with Business Partners  • Collaboration environment evolution	20	HRAP CIS Attawit
3	Environment cost and system configuration Administrative Procedures for Starting Use of the environment	20	ASH IT Aikawa
4	Methods for Applying CATIA V6 Practices Deployment plan	20	HRAP Funakoshi SMG
5	Summary	5	ASH IT Aikawa
6	Q&A	45	ASH/HRAP/HM ALL
7	Closing speech	5	HRAP Funakoshi SMG



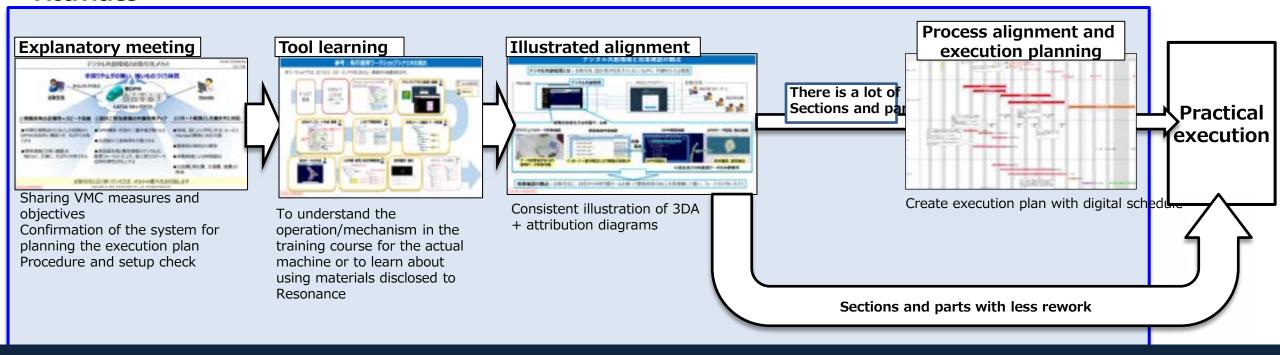
### **■** Purpose

Prepare for practical application of CATIA V6 and Digital Collaboration Environment by suppliers and designers.

### **■** Goals and methods

	Goal of practical application	How to proceed
	The prospect of drawing and drawing out of the applied part in CATIA V6 new drawing form shall be established.	Individual adjustment for each part between
Process matching		suppliers and Honda Design

### ■ Activities



43

### List of submissions $\sim$ Illustrated alignment $\sim$

### Application List of Illustrated instruction

998	10	福考	25.06	有關爭定日
新基份學情報	斯品書号	1750.		
	<b>新田名</b>			
	<b>原品模性</b>			
	医腺瘤			-
	NOTER			
	表			1
	983			
	V2F917			
3Dデータ検別	SOLID			
	SURFACE			
	ASSY/COMP.		.5	
0049	10748			
	4/LBI			
	V4+80			
数基準性	4790			
	MG(培養/保護)			
	CHF (B+540KC)	まに内外裏のデザイン部品		
	HOLE(76-2-接機)	76.2 · 电频频系示符模型		
	HOLE (MR)	<b>种物质品位为指示</b>		
	MANUFACTURING DATA	他指揮品の耐品属性能力(主こ内外裏部品)		
	FLEX	単品(終入)研修とASSY(完成者)状態で形状が実生を認識	7.1	
STES.	VSEW / ANNOTATION	The state of the s		
	SECTION/ANNOTATION			
	MONORIE			
	3000形状が似い場合の報告			

### Sample Dwg



### Alignment sheet of Illustrated instruction

- 100				
	ANT ERRORNE	株式の名の大学では、日本の社会です。 日本記号、日本名、場合による日本できて	87	HRYSUMSSETS.
PORCEA	SPCB.	・ のは、日本のは、からから、からのは、日本のは、日本のは、日本のは、日本のは、日本のは、日本のは、日本のは、日本	47	6年以前、共同では同様には事件が をしたら研究の様子と
	SET SHORT PARTS	<b>東京教育というのかの内容につくまで1番目が表示す</b> ()	14.7	ORBOTES REAL
	9090025-1	まりの機能が確心的。 だかのかけった・14位ますながありまたが1	47	0
	YES THE TENNAMENT AT THE CAPTURE	CANDA CAR CONTRACTOR SERVICE	47	1
		ROBERT TOOMS TYBE RY TWEET P	87	1
CONTROL .		新規利用の関係の関係の関係は、よりの開発のサラの運用を開始したとう	RT.	1.0
-	90.	が数/開発 (1865年)(1965年)(1965年)	RT.	1
	1403	で発生性機能が大きに関系できます!	16.7	B-10
	OH OR SHIP	カライ男相な公園を実施的またから集合されたとしまじたためとアン(番目)		194
	MARCHICTURING DISTR.	MERCANDA PROPERTY CONTRACTOR		T
	直接保护ANAGEHERE (NOC)	PRINCIPAL INTO THE PROPERTY TREES, WILLY T	87	METEURICETT.
	SMIC DRC	SAUC SPECIFICACION CACAMINES ACRES	9.7	1
	PROFING SPRICE.	Process STROUGHARTS/THE TWELFER T	9.7	85.0
CONSTRUCTOR	COMPOSITION FABRUS	COMPOSITION PARTY TO BY A PARKY CO. THE BURLOW ?	18.7	
to contract to	50976E	NOTE BOARD AND ADDRESS OF THE PARTY OF THE P	8.7	100
		<b>連り申込むと意味が表現したで発出が多なか?</b>	9.7	1.0
	Bridge (149LC)	満た4年により第2日から7日に3人「第2五年にます	47	
comment.	yun	・株式 (株人) が成したいできる様々の称う。 市内の第四条件のイータスターでは、第二条で乗る所の指摘ではは他のできたかり		9

### Concern & C/M

	[Supplie	er Part Name] 課題と対応		11
Parts	Stated	Arrest / nerrequisitors	Argunstin	Series.
-		-	-	

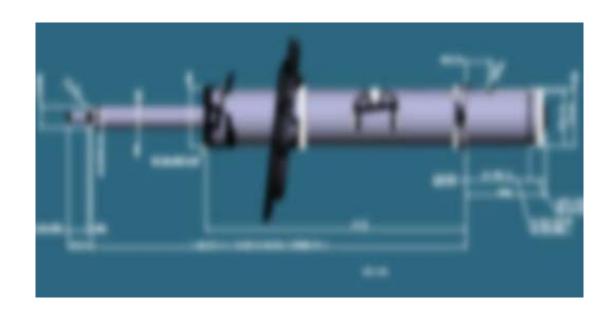
### **Result & Conclusion**



### Illustrated alignment

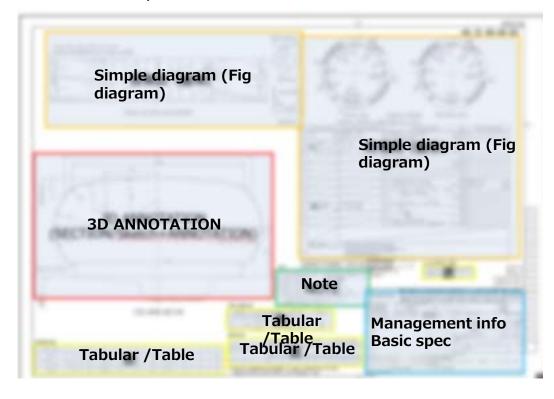
Goal of WS completion	Deliverables
The prospect of drawing and drawing out of the applied part in CATIA V6 new drawing form shall be established.	Graphical consistency result table Lot3 completion check sheet

■ Procedure example ①



Drawing with actual parts and verification/matching

■ Procedure example ②



With each drawing in a new form based on the current drawing

Match what elements are illustrated

45

## 図示整合結果表

义	示整合表
	小正口化

整合手順書として 活用ください

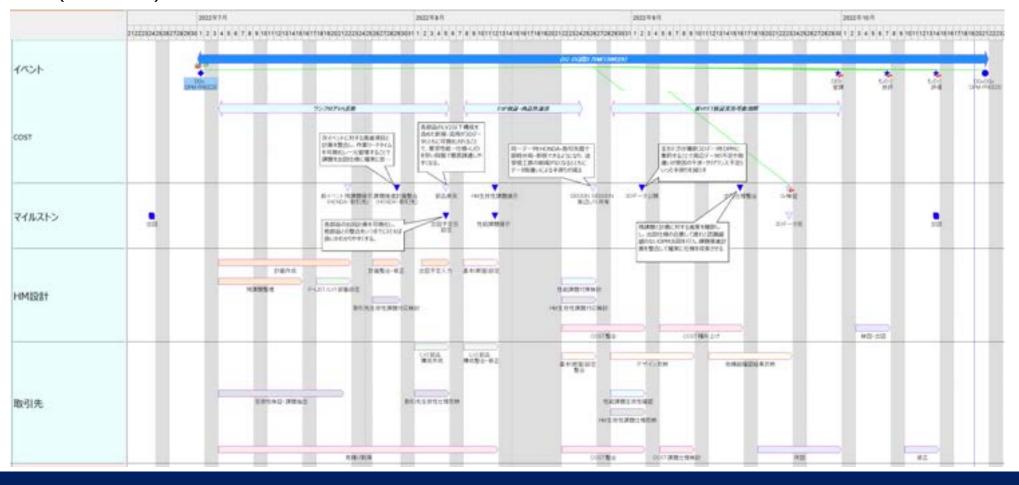
SECTION	対象部品No	部品名	お取引先
F999	99999	SAMPLE. ASSY	VMC株式会社
お取引先担当者	HM設計担当者	整合完了日	Design Session
宇都宮三郎	芳賀四郎	2023′2/30	prd888888888888888

分類	項目	観点	結果	備考
	PART STRUCTURE	構成部番の粒度(部品,部材の構成)や、 自領域内の水平展開に 部品番号、部品名、構成No.を整合出来たか? 活用ください	完了	
部品構成関連	SPEC図	新図面形態に伴うSPECIFICATION(部品仕様書)図について、 追加・廃止・記載する内容の改訂について整合出来たか?	完了	
	SET SHORT PARTS	新図面形式でのSSP作成内容について双方で確認出来たか?	完了	
	WORKテンプレート	全ての構成部番に対し、どのWORKテンプレートを設定するか整合できたか?	完了	
	VIEW/SECTION/ANNOTATION /CAPTURE	従来の図面に記載されていた個々の寸法・注釈等の指示を 3DAおよび新しい図面形態でどのように図示するか整合できたか?	完了	
	++55	新図面形式での材質指示内容を双方で確認出来たか?	完了	
3D上の図示・属性指示   (CAD指示項目)	材質	新規材?	完了	
(CADII小项目)	接合	Example	完了	
	HOLE	穴属性	完了	
	CMF (色・シボなど)	色・シボ情報などの属性情報指示方法は整合できたか?(主に内外装のデザイン部品)	<b>#</b>	
	MANUFACTURING DATA	樹脂部品の属性指示方法は整合できたか?(主に内外装部品)	5 了	
	表題欄(MANAGEMENT INFO)	MANAGEMENT INFOでの図示内容を双方で確認出来たか?	完 ?	
	BASIC SPEC	BASIC SPEC図示内容について双方で確認出来たか?	完了	本型品までのWt集計方法は都度整合
	FINISHING SYMBOL	FINISHING SYMBOL図示内容について双方で確認出来たか?	完了	
標題欄・構成欄・NOTE等 (EDITOR指示項目)	COMPOSITION PARTS	COMPOSITION PARTSで記載する内容を双方で確認出来たか?	完了	REMARKS記載内容は室課図面ルールに のっとる
	NOTE,FIG図	NOTE欄およびFIG図の図示内容について整合できたか?	完了	
	<u> </u>	表を使った図示表現の要否について整合出来たか?	完了	
	表の表現(TABLE)	表が必要となった場合図示の内容について整合出来たか?	完了	
その他部品特性	FLEX	単品(納入)状態とASSY(完成車)状態で、 形状が異なる部品(ハーネス,ケーブル,潰し設定部品等)の指示方法は整合できたか?	無	

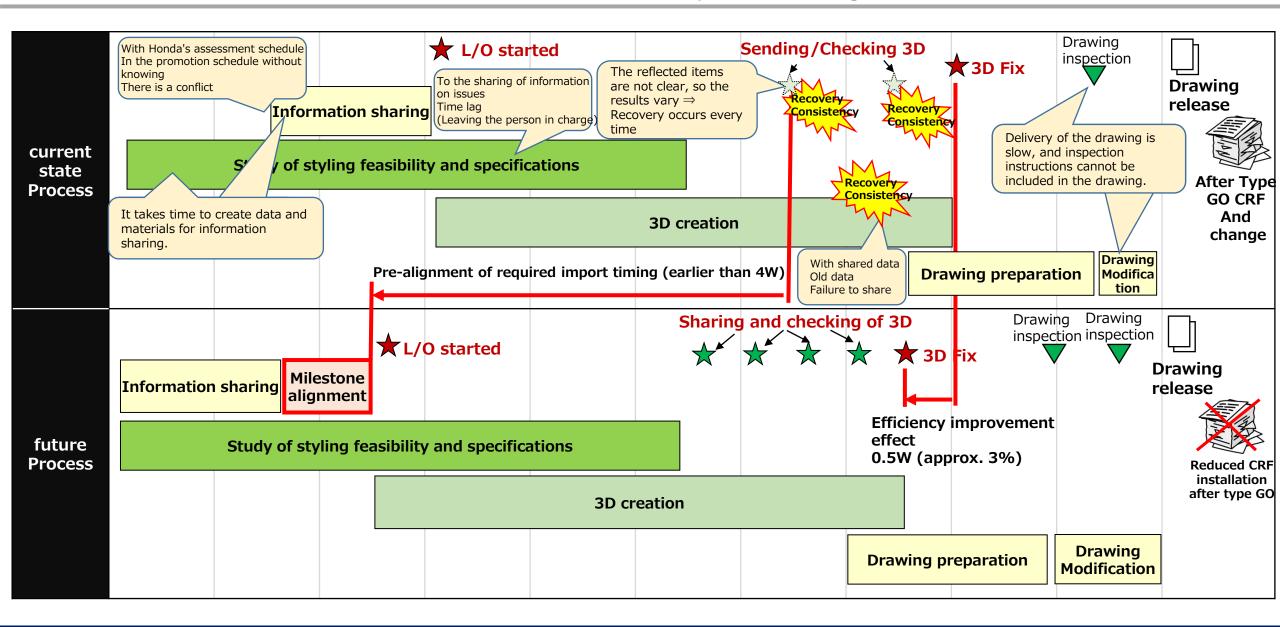
### Alignment of Collaboration processes

Goal of WS completion	Deliverables		
model schedule	Specific Implementation Plans for New Development (IQUAVIS) Specific and Quantitative Approaches and Prospects of Effects		

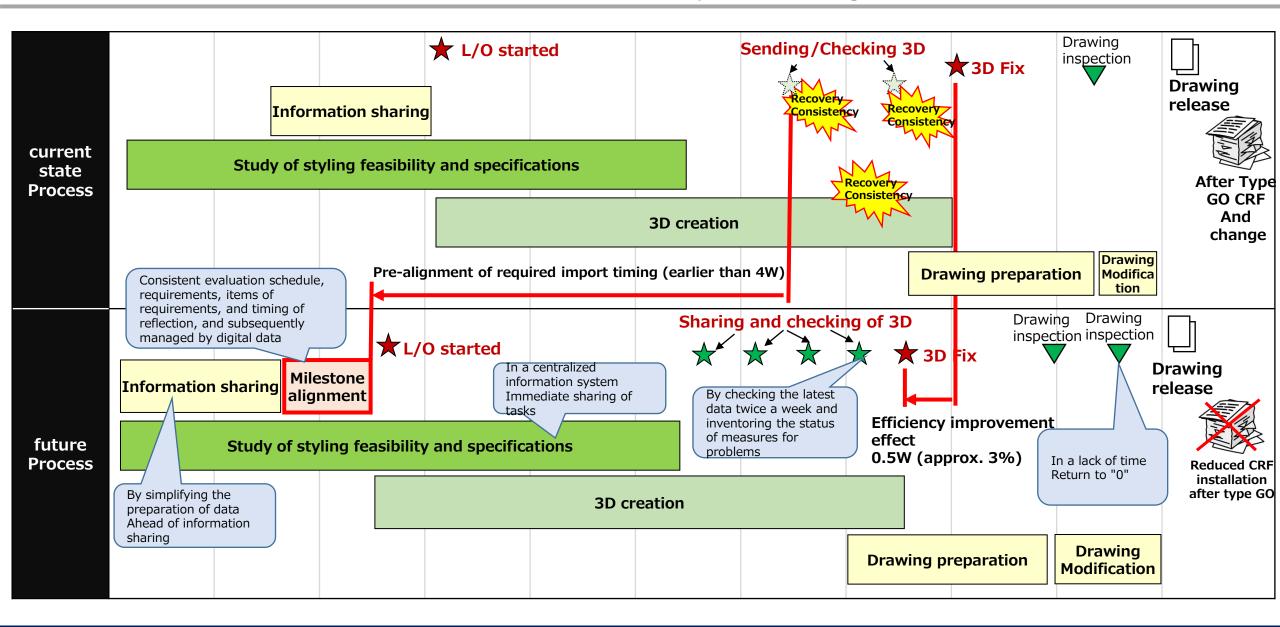
### ■ Deliverables (Item Plan)



### Point of Collaboration process alignment



### Point of Collaboration process alignment



### List of submissions ~Process matching~

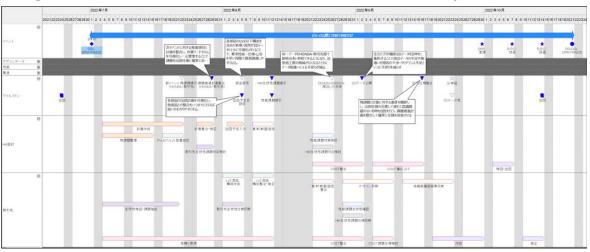
### Confirm concern and ideal target



### Initiatives for xxxx of xxxx (~ Quantitative Target)



### Digital calendar that reflects Collaboration work processes

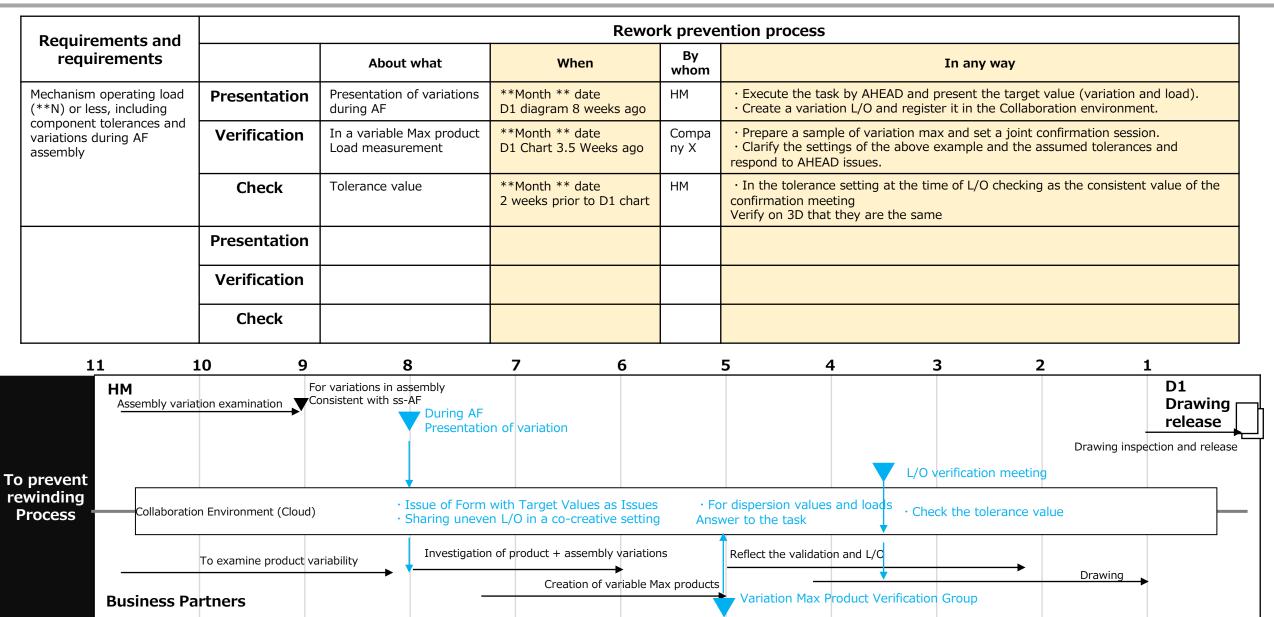


### Completion check sheet

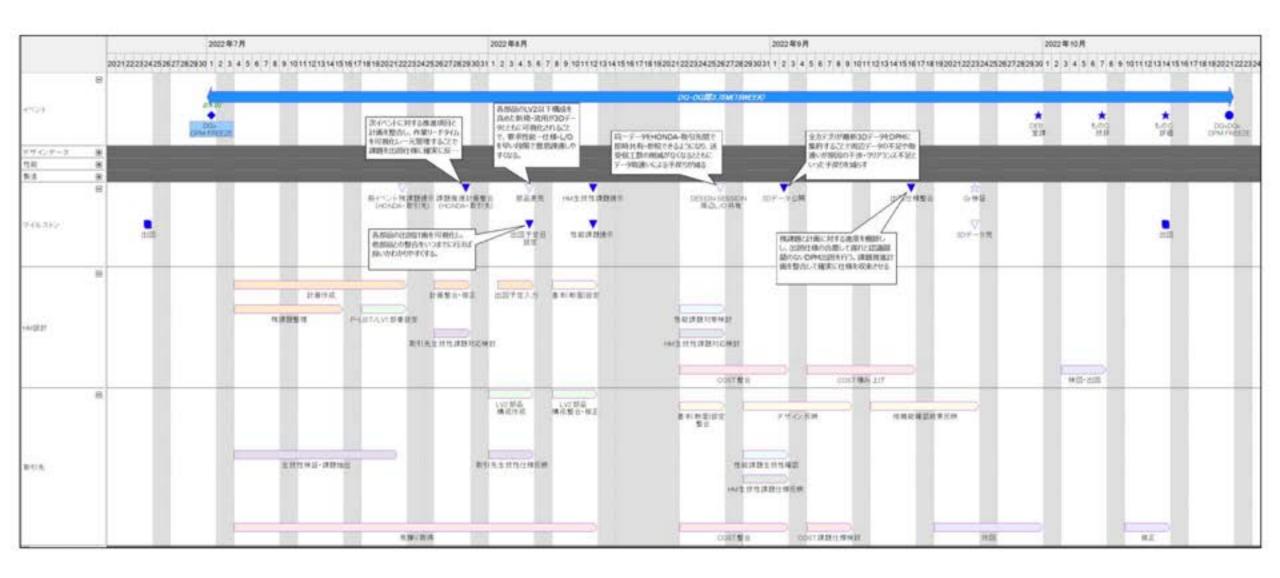


50

### Joint Creation Process Alignment Initiatives and Prospects of Effects



### Digital calendar that reflects Collaboration work processes



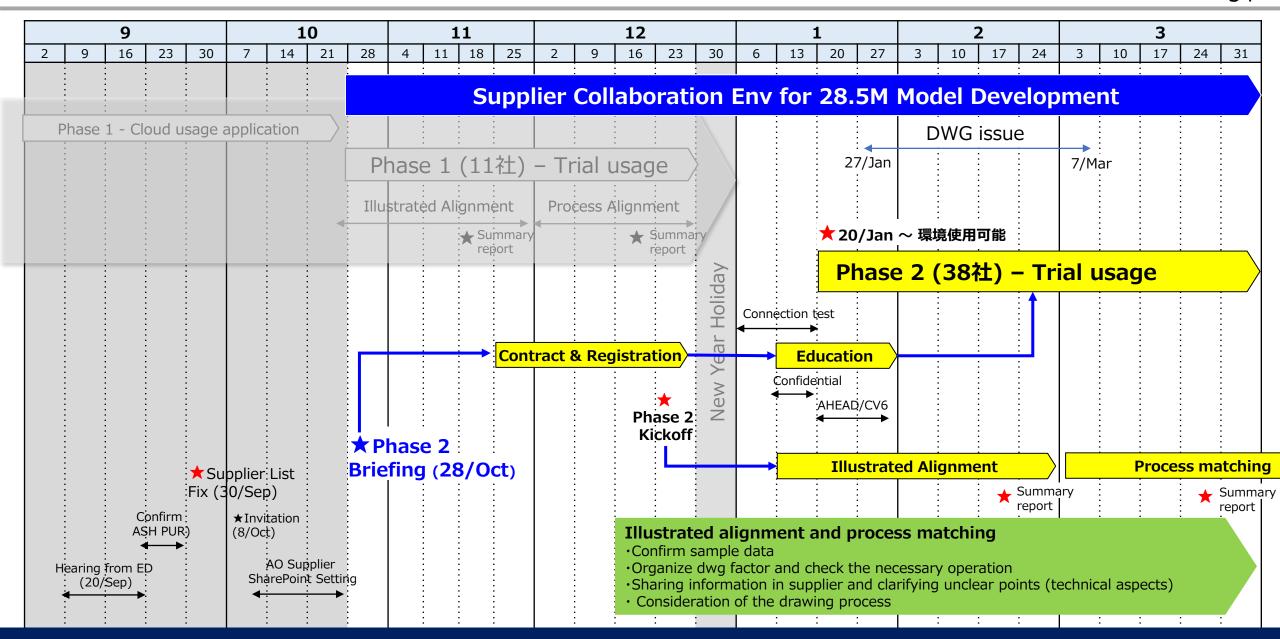
### Completion check sheet

SEC	TION	F999	Name of customer	VMC Corporation	Component main No	99999	Part name	SAMPLE. ASSY
	ustrated gnment	Completed, N/A	Alignment of Collaboration processes	Completed, N/A	Digital scheduling URL	Iquavis://main/show?ProjectId=1ebdd072-59ff-4fe1-b5de-6f8d0c9cbb7b		ProjectId=1ebdd072-59ff-4fe1-b5de-6f8d0c9cbb7b

#### <Initiatives and Effects of Collaboration Process>

Classification		Description	Prospective effect <person-day></person-day>
Rework to reduce	<ol> <li>Clarification of the spec FIX schedule,</li> <li>Clarification of L/O FIX schedule,</li> <li>Optimization of verification schedules and contents,</li> <li>Others</li> <li>No effect (The reason is described in the content.)</li> </ol>	By not changing peripheral L/O hardware such as component layout and colliding hardware,  Prevent rework of biometric reflection	1.5
		Compone developm Example ed in the initial stage of development, so	3
Efficiency	a. Sharing the most recent and same CAD, b. Sharing the latest and same schedules and issues,	By working on a schedule while sharing the newest L/O and issues with each other Can efficiently reflect production skills	2
Improve ment	c. Sharing the latest drawing data, Reduced drawing by d.3D plotting e. Others f. No effect (The reason is described in the content.)		

Contact Comments : Taro tochigi	Thanks for the process alignment. Now that development issues and responses related to production skills have been materialized and their effectiveness has been clarified, we will ensure that planning is carried out in the model ***.
Comments from HM Manager : Jiro honda	Thanks for your understanding and cooperation in our efforts to improve efficiency. We believe it is essential to reflect this plan in development and products, so we request your cooperation in practice as well.



# Agenda

Explanation: 70 mins Q&A: 45 mins

No.	Item	Time (Minutes)	Presenter
1	Opening speech  Today's purpose	5	HRAP Funakoshi SMG
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6	Q&A	45	ASH/HRAP/HM ALL
7	Closing speech	5	HRAP Funakoshi SMG

### **■ Today's purpose**

Supplier Collaboration project will be started from trial phase. Honda will provide one free user for each company as trial phase before submitting M/L.

### ■ Request

Category	Task	Due date
License Agreement(#1)	Please review the agreement.  If supplier can accept the agreement, please inform below information to "HRAP VMC Supplier Helpdesk"  1. Company name  2. Address of company  3. Information of Signer	Nov 08 <sup>th</sup>
	Once you receive document, please sign and submit it by post.	Nov 25 <sup>th</sup>
Check sheet for company(#2,3)	Please fill in the form and submit Excel file by e-mail	Nov 25 <sup>th</sup>
Confidentiality form(#4)	Please fill in the form and submit document by post, and submit PDF file by e-mail	Nov 25 <sup>th</sup>
Public key (#5)	Please create public key and submit data by e-mail	Nov 25 <sup>th</sup>
User Application form(#7)	Please fill in the form and get signature from the manager of HRAP designer. Then submit Excel and PDF by e-mail	Nov 25 <sup>th</sup>

#### [Send data to e-mail address]

HRAP Business Partner Digital Collaboration Help Desk Telephone: 065-5076490, 065-5076567 HRAP\_VMC\_HELPDESK\_SUPPLIER@honda.th.com

#### [Mailing address of original paper]

14 Surasak Rd, Silom, Bang Rak, Bangkok 10500 Asian Honda Motor Co., Ltd. To: Kenji Aikawa

### **■ Download document**

The contact person of the supplier can download documents from our site (Link)

# Agenda

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I'm sorry, but due to time limitations, this question is related to "Today's explanation". If you have any questions, please raise your hand.

### Inquiry window:

### **Supplier Digital Collaboration Helpdesk**

E-mail: HRAP\_VMC\_Helpdesk\_Supplier@honda.th.com

Phone number: 065-5076490, 065-5076567 Business hours: 08:00-12:00, 13:00-17:00

Language: Thai & English

# Agenda

Explanation: 70 mins Q&A: 45 mins

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7	Closing speech	5	HRAP Funakoshi SMG

We have built a digital collaboration environment (CATIA V6+Cloud) for manufacturer drawings to strengthen Collaboration with our business partners.

In the future, in order to develop HRAP models, we will need to deliver drawings using CATIA V6 and have manufacturers draw the drawings at our suppliers using the cloud. We ask for the cooperation of our business partners in implementing this system.

We ask for your cooperation in coordinating the phased introduction between our design department and our business partners.

Finally, I would like to ask our business partners for their continued understanding and cooperation as we strive to realize "strong manufacturing" that will lead to Honda's growth and evolution. Please.

Thank you very much for today.



# How we move you.

CREATE ► TRANSCEND, AUGMENT