

A photograph of two large offshore oil rigs at night, illuminated by bright lights. The rigs are situated in a body of water, and their lights reflect on the surface. The sky is dark, and the overall scene is industrial and high-tech.

*The industry benchmark  
for technical information*

**Digitalization starts with your basic data**

# Sharecat Solutions

- Founded in 1993
- 60+ employees located in Bergen, Aberdeen, Malaysia and Houston
- Deliver cloud-based solutions for managing of technical information
- Deliver services for handling of material and equipment data
- Supplier of EqHub software, services and implementation support to the Norwegian Continental Shelf
- Deliver all material master codification services to Statoil
- Frame agreements with EPIM (Norsk Olje & Gass), Statoil, Shell, BP and AkerBP
- Deliver in addition services to ConocoPhillips, Woodside and Samsung
- Part of “political” dialogue regarding catalogue services to UK Oil & Gas and Australia (“The EqHub Model”).

## Industries

- Global Oil and Gas industry
- Global Power industry

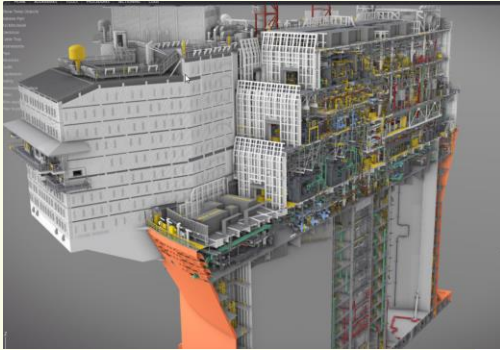
## Our general experience:

- Studies of over 100 asset registers
- Studies of over 15 operators material masters
- In depth surveys for 4 major oil and gas operators

## HOW CAN YOU DIGITALIZE YOUR ASSET IF YOU DON'T KNOW WHAT IS INSTALLED?



# Digitalization in Oil & Gas.....



Source: Visco



## Five key insights from the 2016 Upstream Oil and Gas Digital Trends Survey

1

Digital technologies are recognized as adding value to upstream oil and gas companies by helping **reduce costs**, **make faster and better decisions** and **increase workforce productivity**

2

Despite the low oil price environment, the majority of oil and gas companies will **continue to invest at least the same amount or more in digital technologies** over the next 3-5 years

3

Digital investment today is focused on mobility and the Internet of Things (IoT) – with **analytics and IoT predicted to lead the way** over the next 3-5 years

4

To realize the maximum benefits of digital, companies will need to rapidly improve their capabilities, including maturity in analytics

5

Oil and gas companies are **increasingly leveraging the cloud** to more rapidly unlock the value of other digital technologies

Source: Accenture

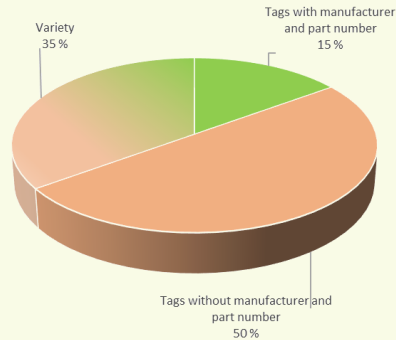
## So, what is new?



# Experience of master data

## Asset Registers

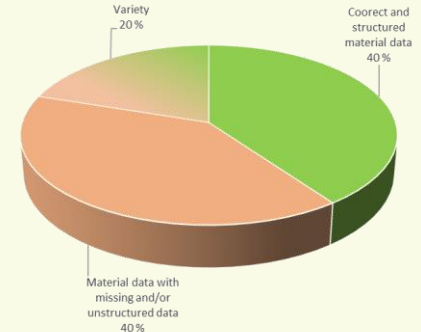
- Findings from more than 100 asset registers
- Only 50% of maintainable tags without part numbers
- Between 15% and 50% of all maintainable tags with part numbers



Source: Sharecat Solutions

## Material Masters

- Findings from more than 15 material masters
- Only 40% of materials established in a structure with correct information and not duplicated
- Between 40% and 50% of all materials are duplicated, missing information, unstructured, not linked to parent data etc.



# Challenges

- Ordering of wrong parts
- Time used to find correct information in the ERP solutions
- Use of materials on stock
- Cost of purchasing, frame agreements, buy the same part over and over
- Effective warehousing
- Time spent on planning and maintenance
- Reduced Asset Integrity
- Reduced security issues

"50% of what I order is wrong" - purchaser

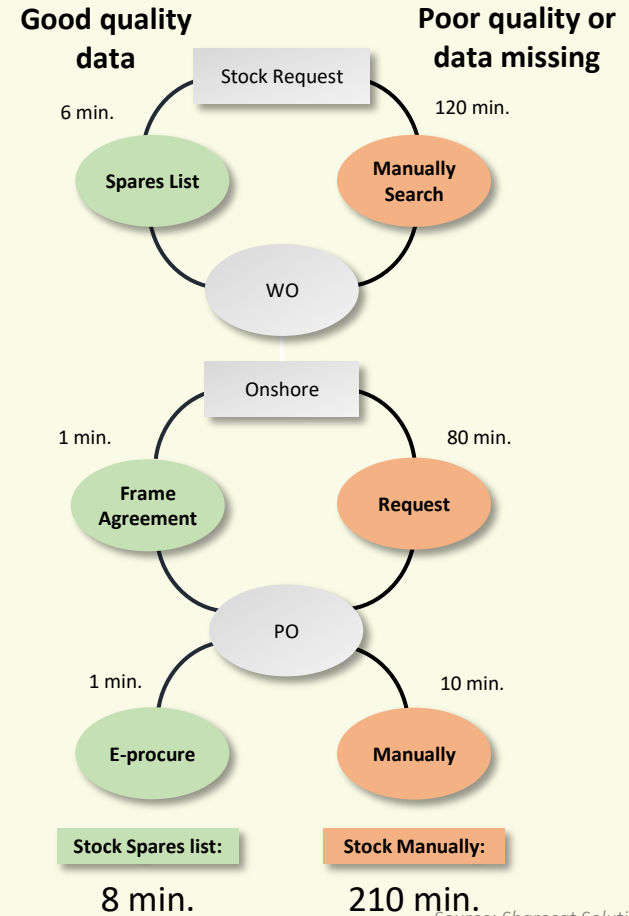
"I don't use the systems, I just call the vendor" - Engineer

"I don't trust the information in the ERP systems, I always check in our hardcopy books" - Maintenance Engineer

"I bought hoses worth of 650.000 NOK that was already on stock" - purchaser

"I drove from the office to the warehouse to check that it really was the part the system said" - Operations Engineer

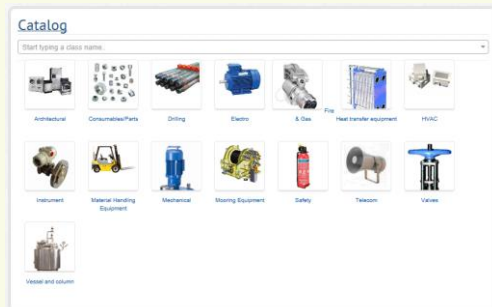
"My KPI is to reduce the volume in the Warehouse with 10% without throwing materials away" - Manager



Source: Sharecat Solutions

# Our solutions and the future

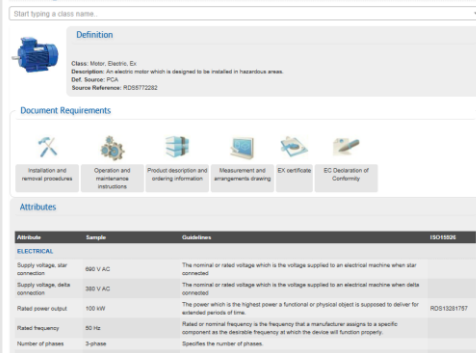
## Sharecat Vendor Catalogue



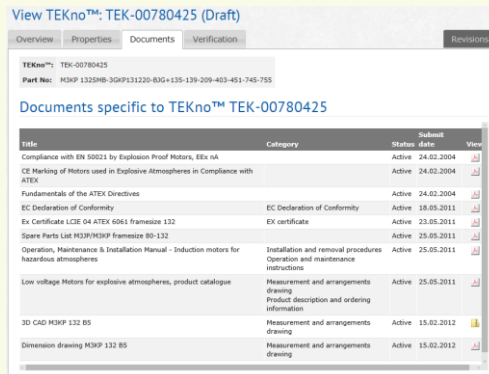
Data is structured based on Equipment type level

### RDL Viewer

#### Catalog Electro Electric Motor

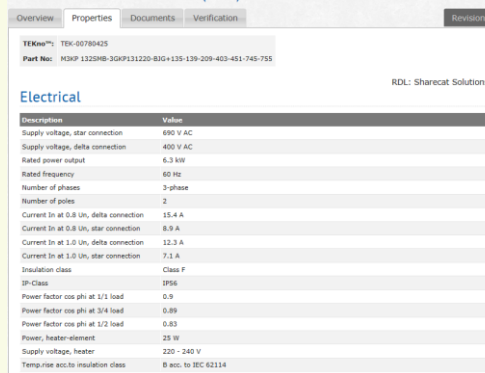


Standard classification based on NORSOK and according to ISO 15926



Standard documents available against equipment variant based on class and industry standard

### View TEKno™: TEK-00780425 (Draft)



Digital data available against equipment variant based on class and industry standard

# Maximize the benefits



- The maintainable tags must be described with required Vendor documentation
- Quality assurance of equipment and spare part information
- Easy accessible for all parties involved

## Five key insights from the 2016 Upstream Oil and Gas Digital Trends Survey

- 1 Digital technologies are recognized as adding value to upstream oil and gas companies by helping reduce costs, make faster and better decisions and increase workforce productivity
- 2 Despite the low oil price environment, the majority of oil and gas companies will continue to invest at least the same amount or more in digital technologies over the next 3-5 years

3 Digital investment today is focused on mobility and the internet of things (IIOT) – with analytics and IIOT predicted to lead the way over the next 3-5 years

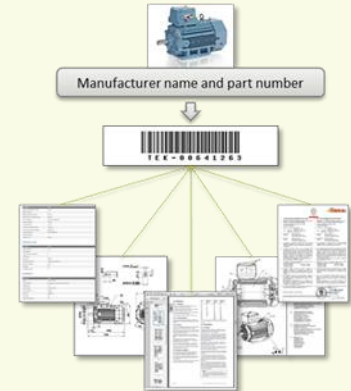
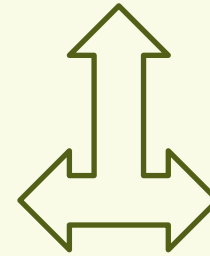
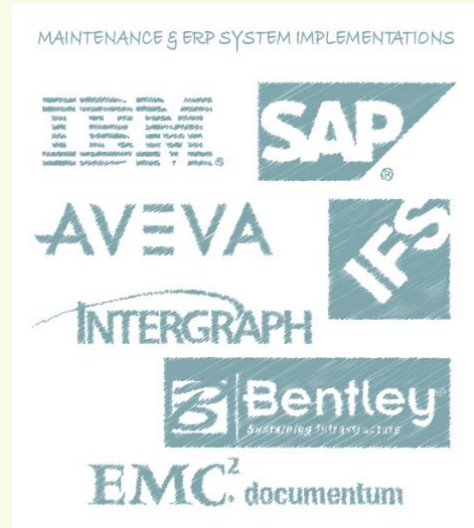
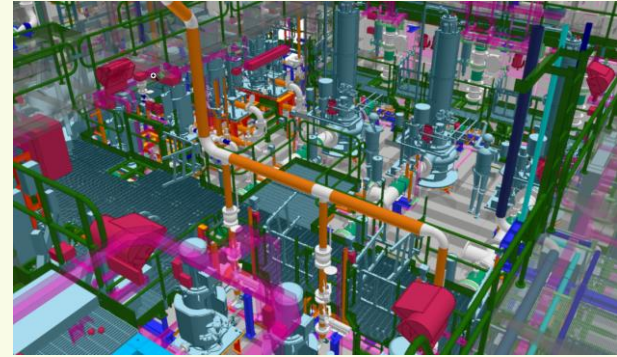
4 To realize the maximum benefits of digital, companies will need to rapidly improve their capabilities, including maturity in analytics

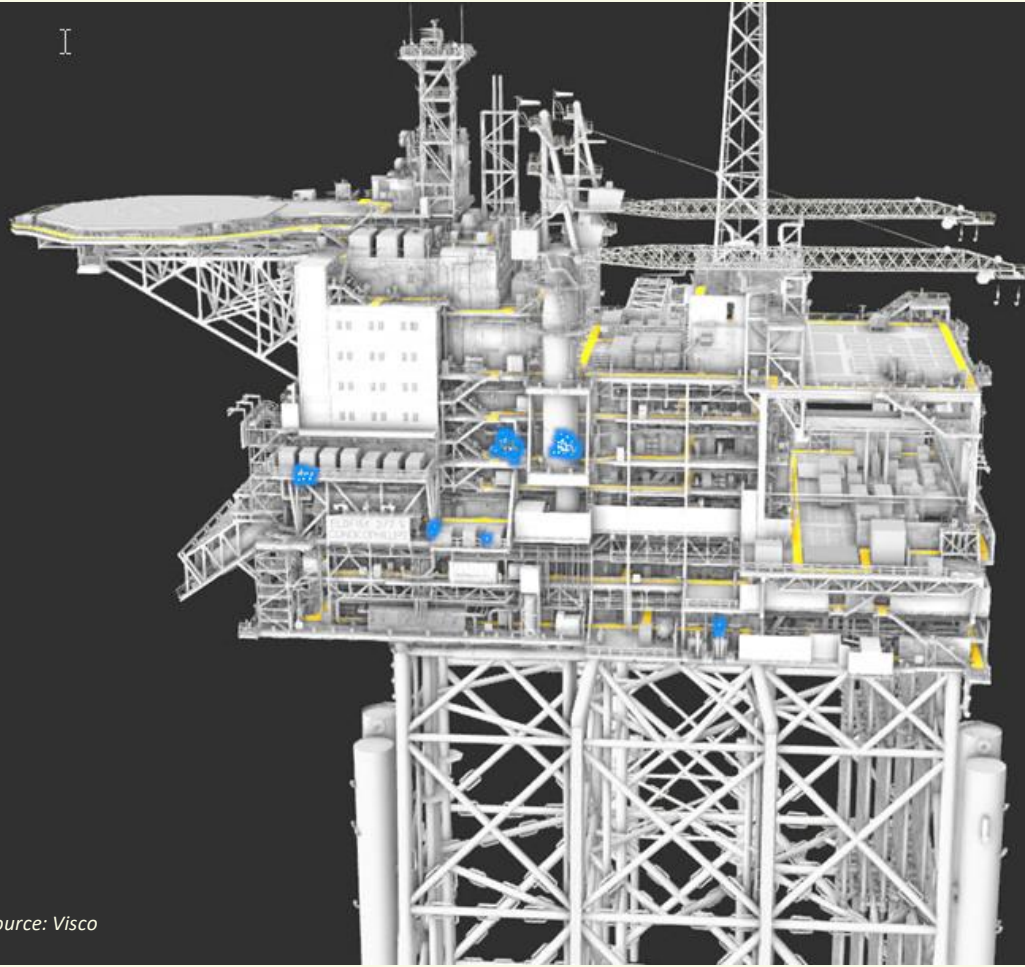
5 Oil and gas companies are increasingly leveraging the cloud to more rapidly unlock the value of other digital technologies



# Maximize the benefits

- Time spent on Maintenance
- Time spent on Supply Chain Processes
- Asset Integrity
- Cost of Warehousing
- Security





Source: Visco

Copy of ELDSFreshWaterMaker (00000000).xlsx

tag1	fldTekNo	Hyperlink	nid
26_C38974	TEK-00794932	<a href="https://www.e...">https://www.e...</a>	
26_C38976	TEK-00794932	<a href="https://www.e...">https://www.e...</a>	
26_C38977	TEK-00794932	<a href="https://www.e...">https://www.e...</a>	
26_C38983	TEK-00794932	<a href="https://www.e...">https://www.e...</a>	
26_C38984	TEK-00796362	<a href="https://www.e...">https://www.e...</a>	
26_C38985	TEK-00796362	<a href="https://www.e...">https://www.e...</a>	
26_C38988	TEK-00794932	<a href="https://www.e...">https://www.e...</a>	
26_C38989	TEK-00797378	<a href="https://www.e...">https://www.e...</a>	
26_C38990	TEK-00797378	<a href="https://www.e...">https://www.e...</a>	
26_C50608	TEK-00796362	<a href="https://www.e...">https://www.e...</a>	
26_C50610	TEK-00796362	<a href="https://www.e...">https://www.e...</a>	
26_P68589A	TEK-00797384	<a href="https://www.e...">https://www.e...</a>	
26_P68589B	TEK-00797384	<a href="https://www.e...">https://www.e...</a>	
26_P68589C	TEK-00797384	<a href="https://www.e...">https://www.e...</a>	
26_P68590A	TEK-00797384	<a href="https://www.e...">https://www.e...</a>	
26_P68590B	TEK-00797384	<a href="https://www.e...">https://www.e...</a>	
26_P68590C	TEK-00797384	<a href="https://www.e...">https://www.e...</a>	
43_TT-55514	TEK-00770799	<a href="https://www.e...">https://www.e...</a>	
43_TT-55518	TEK-00770799	<a href="https://www.e...">https://www.e...</a>	
43_TT-55564	TEK-00770799	<a href="https://www.e...">https://www.e...</a>	
43_TT-55568	TEK-00770799	<a href="https://www.e...">https://www.e...</a>	
43_FT-55502	SPC-00851401	<a href="https://www.e...">https://www.e...</a>	00085B8C
43_FT-55552	SPC-00851404	<a href="https://www.e...">https://www.e...</a>	00085C2B
43_FY-55502	TEK-00782930	<a href="https://www.e...">https://www.e...</a>	000C2A57
43_FY-55552	TEK-00782930	<a href="https://www.e...">https://www.e...</a>	000C2A58
43_PI-55504	TEK-00790174	<a href="https://www.e...">https://www.e...</a>	00085B74
43_PI-55554	TEK-00790174	<a href="https://www.e...">https://www.e...</a>	00085C20
43_TI-55503	TEK-00807784	<a href="https://www.e...">https://www.e...</a>	
43_TI-55553	TEK-00807784	<a href="https://www.e...">https://www.e...</a>	
43_TW-55503	TEK-00851291	<a href="https://www.e...">https://www.e...</a>	
43_TW-55553	TEK-00851291	<a href="https://www.e...">https://www.e...</a>	
27_68589A	TEK-00581790	<a href="https://www.e...">https://www.e...</a>	
27_68589B	TEK-00581790	<a href="https://www.e...">https://www.e...</a>	
27_68589C	TEK-00581790	<a href="https://www.e...">https://www.e...</a>	
27_68589D	TEK-00581790	<a href="https://www.e...">https://www.e...</a>	
28_JB-68591	TEK-00769193	<a href="https://www.e...">https://www.e...</a>	000C24D2
28_JB-68592	TEK-00769373	<a href="https://www.e...">https://www.e...</a>	000C24D3
28_JB-68593	TEK-00769373	<a href="https://www.e...">https://www.e...</a>	000C24D4
30_15503	TEK-00770985	<a href="https://www.e...">https://www.e...</a>	000C21CB
30_15504	TEK-00782466	<a href="https://www.e...">https://www.e...</a>	000C21CC
30_15505	TEK-00770985	<a href="https://www.e...">https://www.e...</a>	000C21CD

# Validation of part number

Document listDoc. requirementsApproval orderPackage infoTag listFull doc. list

Current selection: TI2-M021-ME-001 - Water Injection pump skid

Tag list:

All tags in this package:

Tag No	Tag Type	Source Manuf	Source Variant	Manuf Name	Type	Tek No	Req Src	Details	Source Status
73DE229	DE	ABB AUTOMATION	264GS-R-K-D-N-T-1-B2-C1-E	ABB AUTOMATION	264GS	TEK-00636214		<a href="#">View</a>	
73DE259	DE	ABB AUTOMATION	264GS-R-X-T-N-T-1-B2-C1-E	ABB AUTOMATION	264GS			<a href="#">View</a>	Partnumber contains error
73LG2511	LG							<a href="#">View</a>	Missing source
73MX205	MX							<a href="#">View</a>	Missing source
73MX206	MX							<a href="#">View</a>	Missing source
73MX207	MX							<a href="#">View</a>	Missing source
73MX208	MX	FLOWGUARD	FG-40-15.6-EPT-DX-C-1 1/2'	FLOWGUARD	FG	TEK-00636160		<a href="#">View</a>	
73PI2510	PI							<a href="#">View</a>	Missing source
73PI2540	PI							<a href="#">View</a>	Missing source
73PSL2508	PSL	YOKOGAWA	EJA530A-ECS4-N0-4-DN-KU:	YOKOGAWA	EJA530A	TEK-00628030		<a href="#">View</a>	
73PSL2509	PSL	YOKOGAWA	EJA530A-E-C-S-4-N-0-4-D-N	YOKOGAWA	EJA530A	TEK-00628030		<a href="#">View</a>	
73PSL2538	PSL	YOKOGAWA	EJA530A-E-C-S-h-N-0-4-D-N	YOKOGAWA	EJA530A			<a href="#">View</a>	Partnumber contains error
73PSL2539	PSL							<a href="#">View</a>	Missing source




# Validate and correct

**Document list** **Doc. requirements** **Approval order** **Package info** **Tag list** **Full doc. li...**

Current selection: **TI2-M021-ME-001 - Water Injection pump skid**

Click [here](#) to return to tag list

Manufacturer: **ABB AUTOMATION**  
Type: **264GS**  
Name: **Transmitter, Pressure, Electric**  
Template/Partnumber Status: **Sent For Verification**  
Status Date: **12.05.2005**  
Partnumber format: **X-X-X-X-X-X-Z**



PartNo Status: **Partnumber contains error**  
Tag No: **73DE259** ([View details](#))  
Imported PartNo: **264GS-R-X-T-N-T-1-B2-C1-E1-H3-I2-L1**  
Valid: **264GS-R** Not Valid: **-X-T-N-T-1-B2-C1-E1-H3-I2-L1**  
New PartNo:

If options are missing or incorrect, please click [here](#) to let us know.

PartNo Options:

264GS	R						
264GS	C	1	B	5	A	1	B1
	F	E	D	6	B	2	B2
	L	F	E	8	C	3	C1
	R	G	K	N	D	F	C6
	U	J	P		E	H	D1
	V	K	T		G	P	D2
	Z				H		D3
					I		D5

- Part Number templates to validate Supplier information deliveries.
- This provides a visual indication of the errors entered by the suppliers, providing instant feedback as to how to correct the problem.



# Result

Received from Client:

Manufacturer	ABB Motors
Part number	M3KP 160 MLC 8H
FL Tag	30 07636

Manufacturer	
Part number	
FL Tag	43 PT-32610

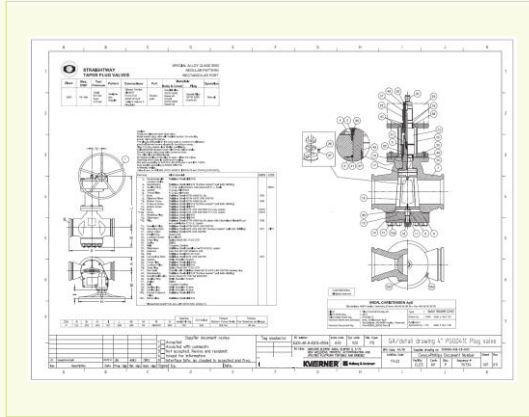
Delivered from Sharecat:

Manufacturer	ABB MOTORS
Part number	M3KP 160 MLC 3GKP164430-BDH-178-194-209-403-451-461-745-755-797
FL Tag	30 07636
SHAREcat ref.	TEK-00854264

Manufacturer	ROSEMOUNT
Part number	3051S2TG5A3E11A1KI1M5P1Q4Q8QTT1Q15
FL Tag	43 PT-32610
SHAREcat ref.	TEK-00790918



# Result



Documents linked  
to incorrect Tags

91 FV-00484	91 LV-00419
91 FV-00661	91 LV-00890
91 FV-00671	91 LV-00895
91 FV-00837	91 LV-00981A
91 FV-01007	91 LV-00981B
91 FV-01303	91 LV-00984A
91 FV-01313	91 LV-00984B
91 FV-01323	91 LV-01075
91 FV-01342	91 LV-01527
91 FV-01389	91 PV-00265A
91 FV-01823	91 PV-00265B
91 FV-01851	91 PV-00450
91 FV-04510	91 PV-00546
91 FV-04520	91 PV-00550
91 FV-04530	91 PV-00624
91 HCV-00298	91 PV-00838
91 HCV-00338	91 PV-00887
91 HCV-00510	91 PV-00978
91 HCV-00530	91 PV-01027
91 HCV-00632	91 PV-01146A
91 HCV-01259	91 PV-01146B
91 HCV-01354	91 PV-01533
91 HCV-01626	91 PV-01750
91 HCV-01642	91 PV-01770
91 HCV-04539	91 PV-01810
91 LV-00224	91 PV-01852
91 LV-00271A	91 TV-00403
91 LV-00271B	91 TV-00867

87 02554  
87 02544  
87 02545  
87 02540  
87 02556  
87 02547  
87 02555  
87 02542  
87 02541  
87 02546  
87 02559  
87 02558

*“How you manage information  
determines whether you win or lose.”*

Bill Gates, Microsoft

**Thank you for your attention!**