



Digitizing Terma

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About Terma



Vision

Securing people through advanced technology.



Mission

Our engineering excellence provides mission critical solutions within Aerospace, Defense and Security to protect people and their assets.



Values

- Act globally
- Deliver the promise
- Work with integrity
- Learn and improve
- Show passion



Narrative Themes

- Mission critical
- Security
- Roots in Denmark
- Partnerships
- Diversity
- Innovative technology



CSR Compass

“We are guided by one overall purpose: to deliver security for countries, alliances, and individuals; Security is a means to maintaining

and developing prosperity and protecting human lives and sovereignty. In fulfilling this purpose, we conduct our business ethically, inspired by the UN Global Compact.”

Terma Business Areas

Support & Services (TSS)

Through Life Support:
Maintenance, health checks,
service, test equipment,
and consumables.

Aeronautics (AER)

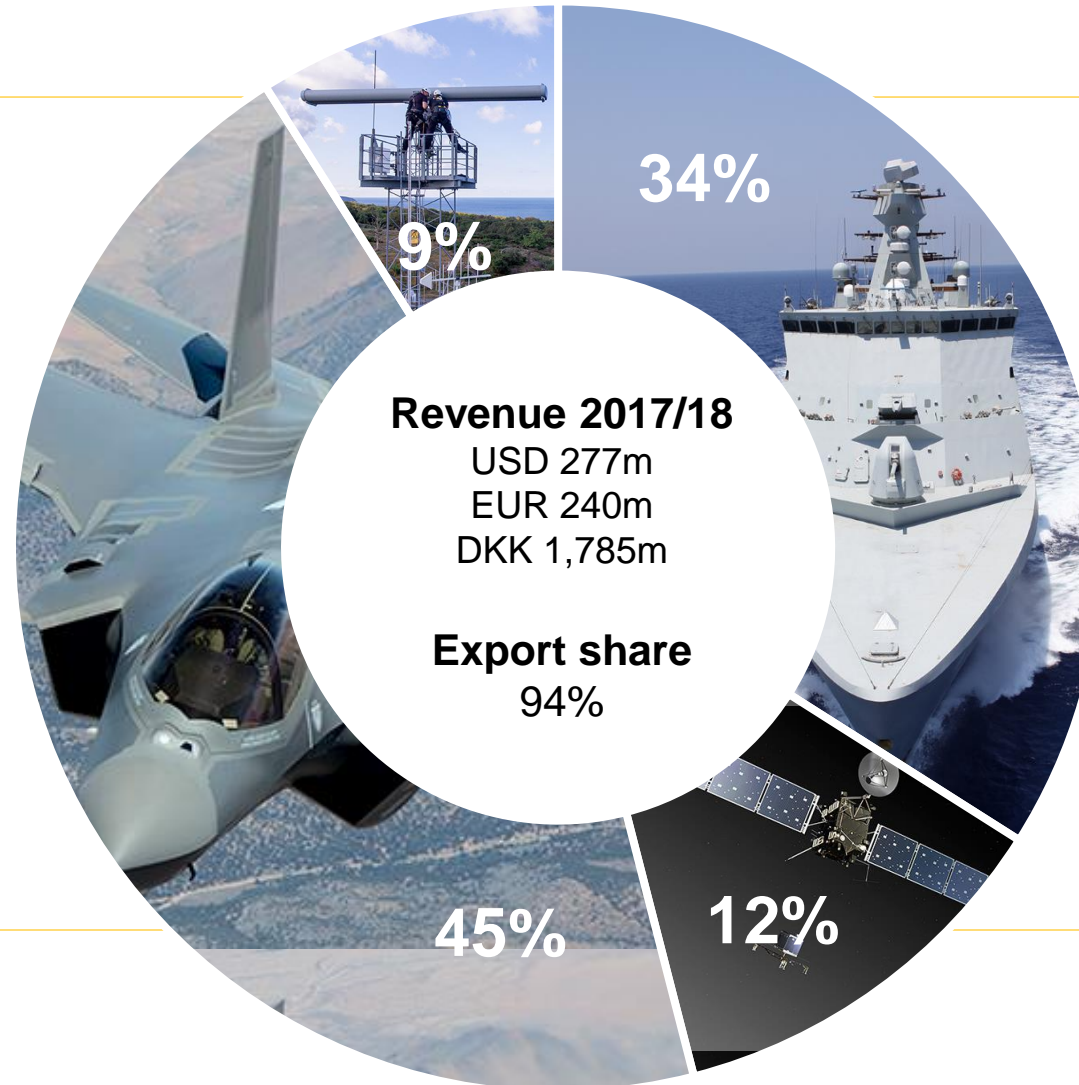
Airborne solutions
and manufacturing of
electronics and aerostructures

Surveillance & Mission Systems (SMS)

C2 systems, protection of critical
infrastructure, and radars for
small target detection

Space (SPA)

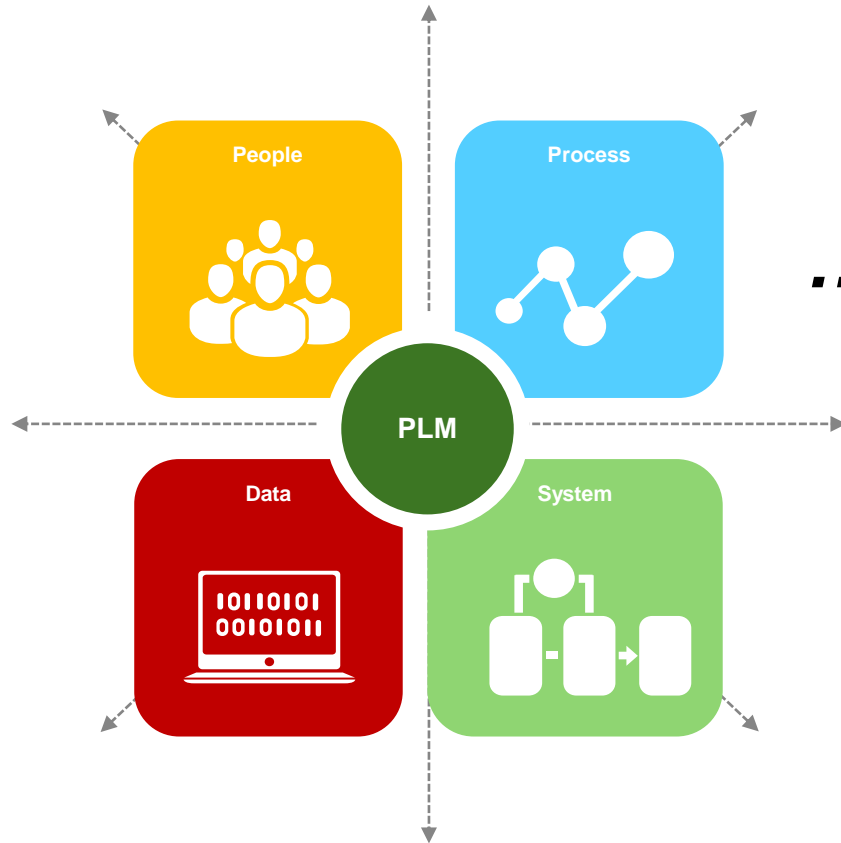
Mission-critical
products, software, and
services for space missions



Terma's digital vision

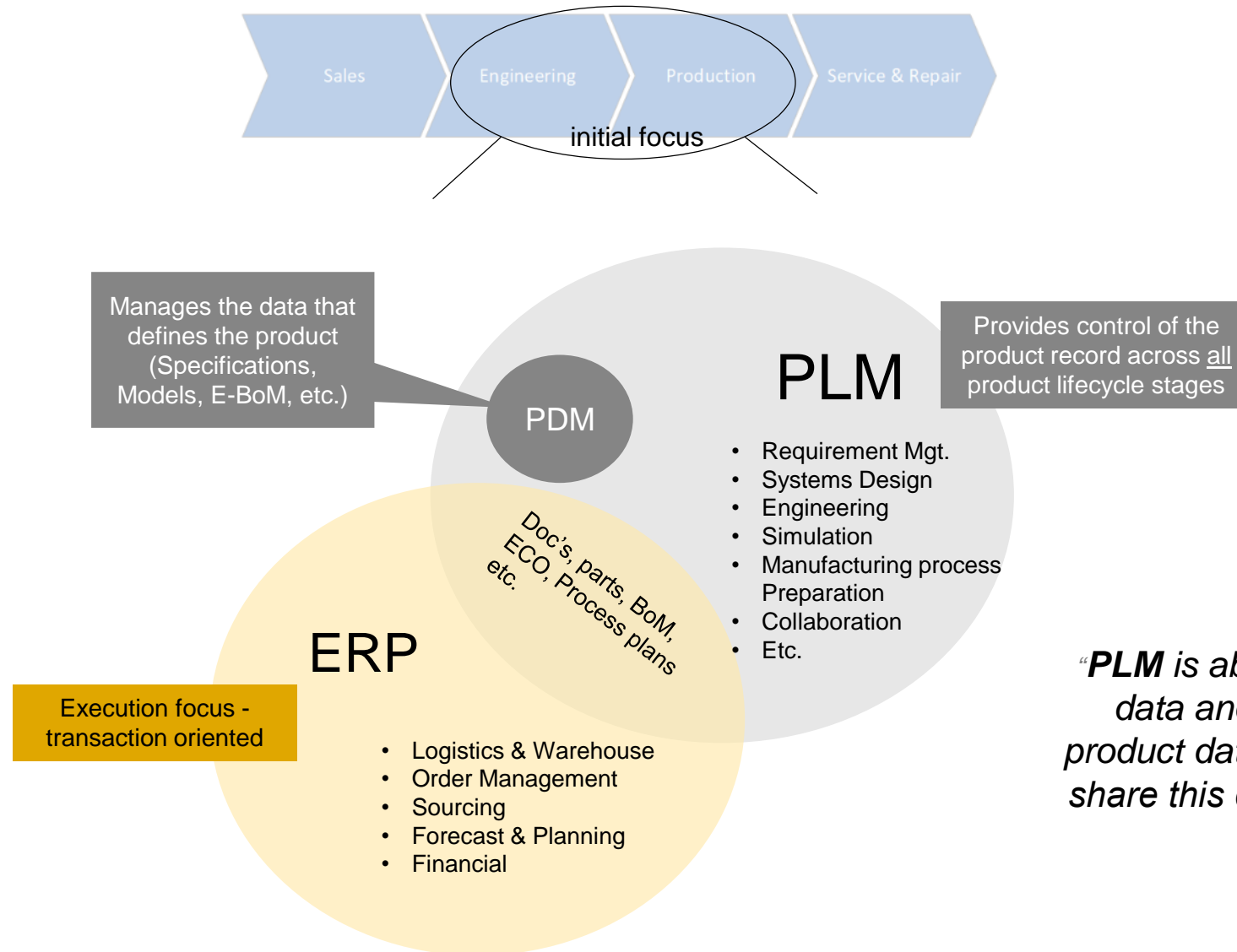


So, you want a PLM system?

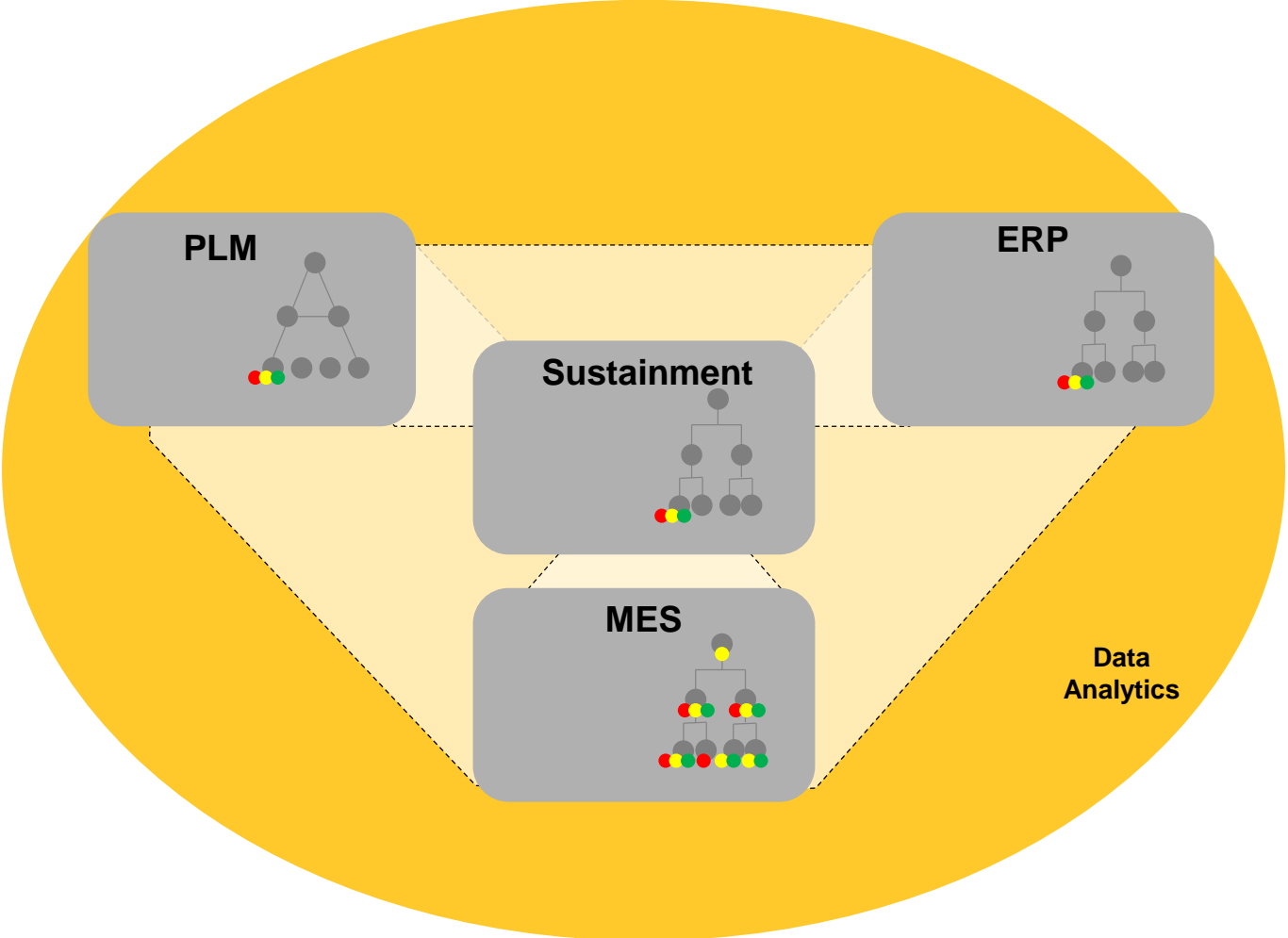


.....I think it is a good idea. Now go do it!

What is PLM, PDM and ERP?



Digital Vision



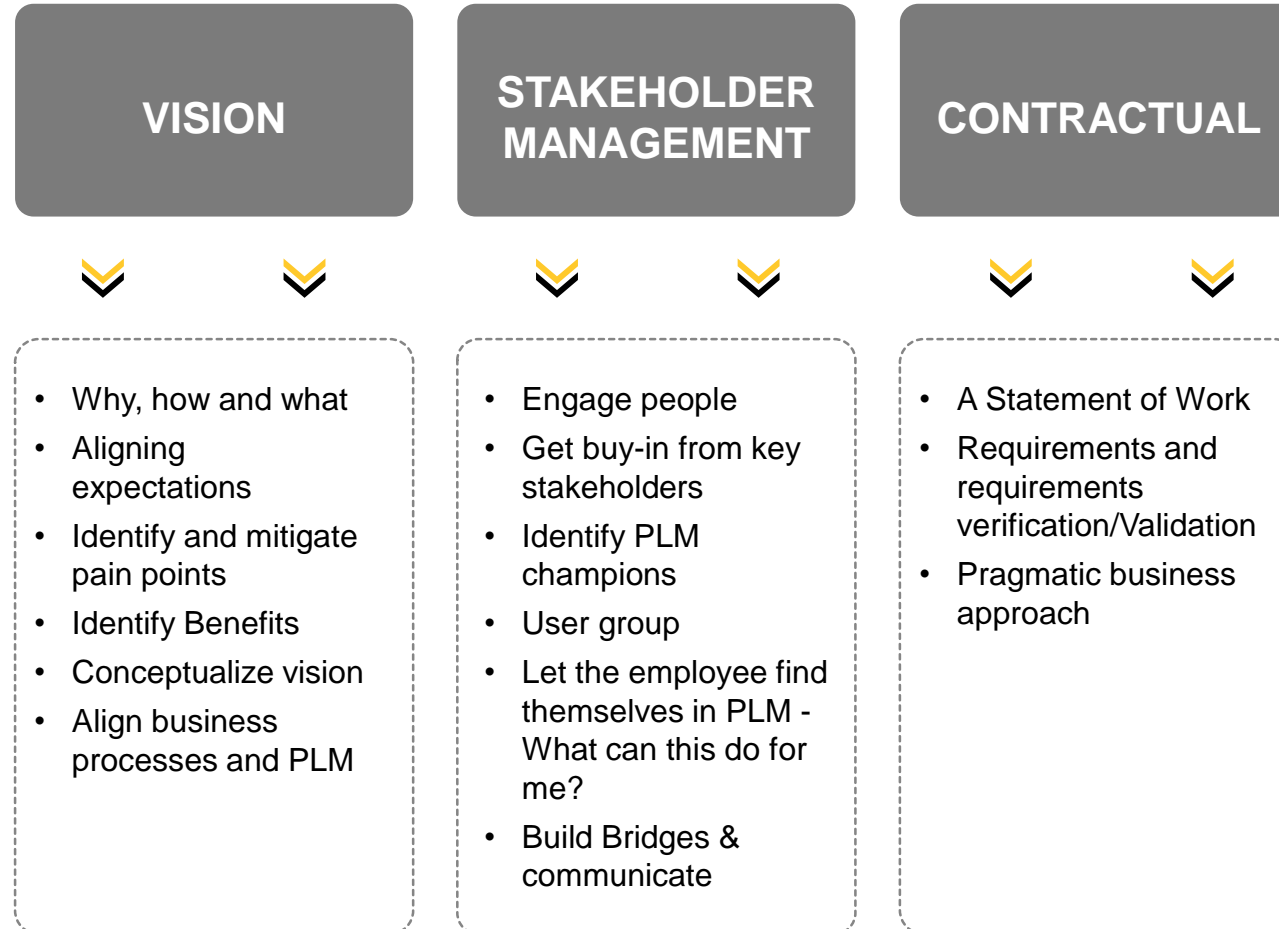
The Connected Enterprise



How to prepare your organization for PLM

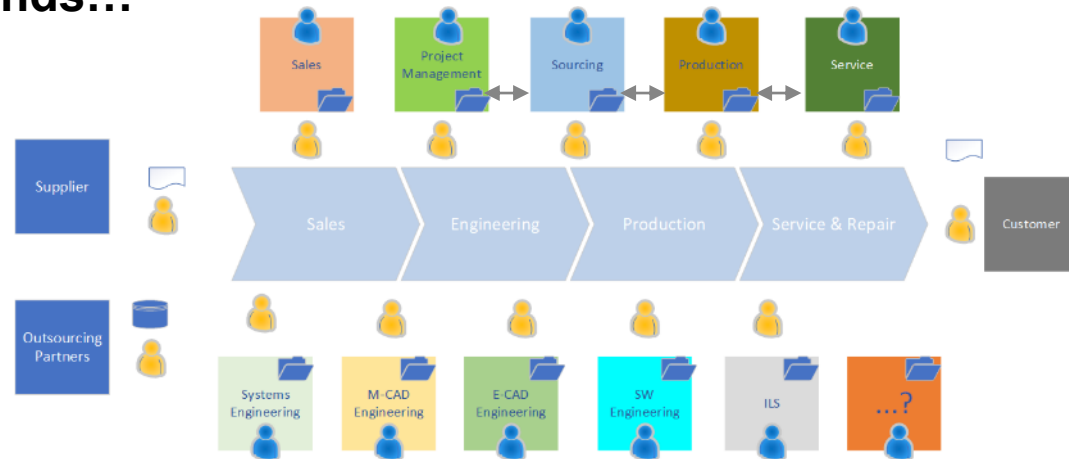


PLM Preparation



Terma Dream State

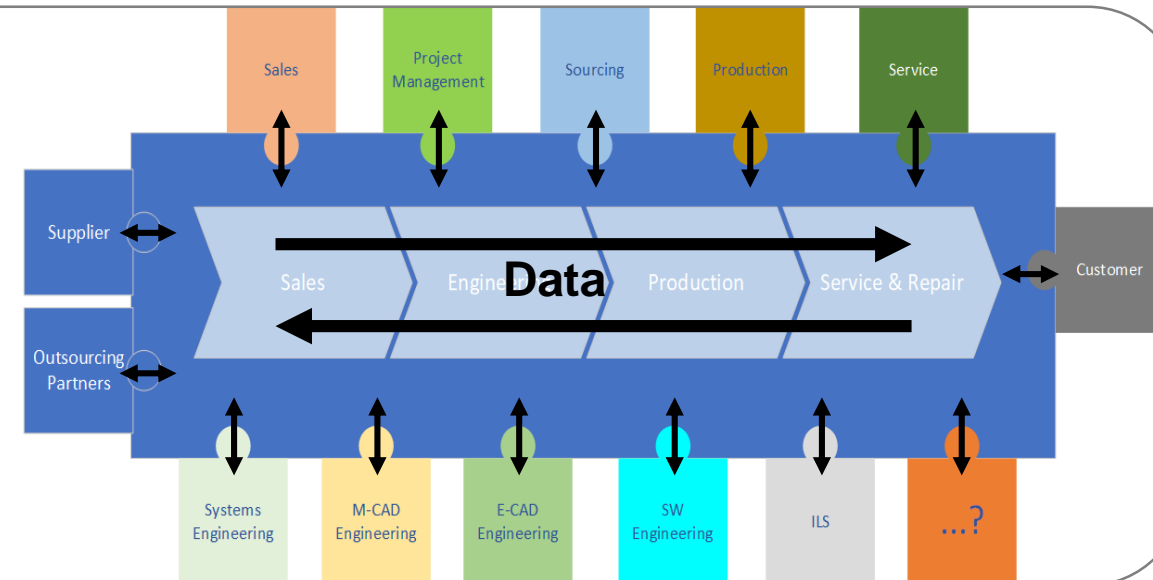
From islands...



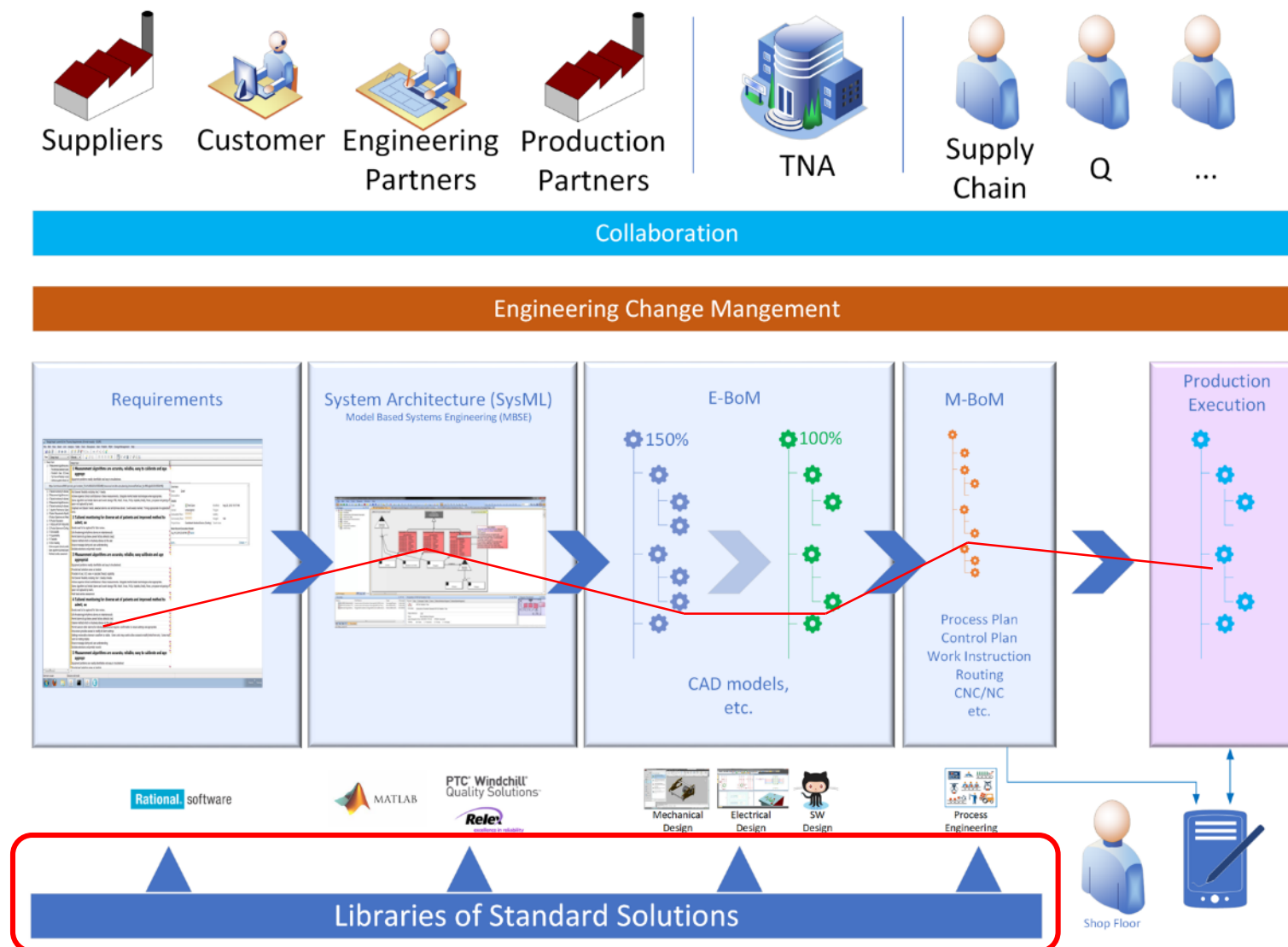
- Data Integrity ensured by People
- High complexity - inefficient collaboration
- Poor retention of knowledge
- No continuous learning loops

..to a continent

- Data Integrity ensured by PLM
- Integration and automation
- Data sharing up & down stream
- Digital backbone for future growth



Digital Thread



- A Digital Thread -full traceability
- Model Based Engineering
- Solid Standards to re-use
- Cross org. Change Mgt.
- Seamless Collaboration
- Automation
- No Excel
- No Heroes
- No Folders
- Connected systems - One truth

PLM Top Level Plan

	Year 1	Year 2	Year 3	Year 4
Headline	Product Data Management	Workflows IFS vs PLM	Change Management	"Dev." in PLM Prod. in IFS
Task	Data Management SCD	Implement workflows for efficiency	Move from IFS → PLM SW & SE tool Integration	Design for full Value Chain Make Value Chain visible
Stakeholder	Mec. & Elec Design Mec. Manuf. Supply Chain	Mec. & Elec. Design & Manuf. Supply Chain	Engineering Mec. & Elec Manuf. Supply Chain	ALL
Benefit/MDKK*	1,7	2,9	6,2	8,4
Cost/MDKK	4,2	3	3,8	3,3
No of Users	49	126	234	384

* Based on 15min saving in searching per day

Paperless Manufacturing

Doc. no:	Page 8 of 44			
Doc. no:	Part/Sign	Description / Instruction	Documentation	Materials / Tools
2019-01-13	10.0 07028	Remove BMI OML Ply RMO536 from cold storage and acclimatize per TIG-09.04.01.06	TIG-09.04.01.06	BMI OML Ply RMO536
2019-01-13	10.1 07028	Remove BMI Film Adhesive RMO539 from cold storage and acclimatize per TIG-09.04.01.06	TIG-09.04.01.06	BMI Film Adhesive RMO539
2019-01-13	10.2 07028	Remove BMI Carbon Fabric RMO540 from cold storage and acclimatize per TIG-09.04.01.06	TIG-09.04.01.06	BMI Carbon Fabric RMO540
2019-01-13	10.3 07028	Remove BMI Glass Fabric RMO564 from cold storage and acclimatize per TIG-09.04.01.06	TIG-09.04.01.06	BMI Glass RMO
2019-01-13	10.4 07028	Remove Epoxy Glass Fabric RMO567 from cold storage and acclimatize per TIG-09.04.01.06	TIG-09.04.01.06	Epoxy Glass RMO
2019-01-13	10.5 07028	Materials for this component will be cut using the Lectra ply profiler, refer to user instruction manual 524871-AT for use of this equipment	524871-AT	
2019-01-14	10.6 07028	Once acclimatized - Load BMI OML Ply to ply profiler, cut and label plies. Return to cold storage		
2019-01-16	10.7 07028	Once acclimatized - Load BMI Film Adhesive material to ply profiler, cut and label and return to cold storage		
2019-01-16	10.8 07028	Once acclimatized - Load BMI carbon fabric material to ply profiler, cut and label and return to cold storage		
The use and/or disclosure, etc. of the				

Parts List Single Level Blow Thru										Includes		Buildable
Level No	FA	QTY REQ	U	R	STD	ITEM OR DOCUMENT NUMBER	PART DESCRIPTION	PART CLASS	P	T	PREP NO	
0000						REC	A					
0000						DOP	A					
0000						DOP	A					
10						DOP	B					
10						DOP	B					
10						INC TIG-09.04.01.06	K					
10						INC 524871-AT	K					
10						MAI	C5					
20						DOP	B					
20						DDP	B					
20						INC	C					
20						INC 530884-AT	A					
20						INC TIG-09.04.00.47	K					
20						INC TIG-09.04.01.06	L					
20						INC TIG-09.04.02.15	M					
20						MAI	C5					
20						INC TIG-09.04.00.49	T					
30						DDP 695555-NH	E					
30						MAI	C5					
30						INC 669187-AT	E					
40						MAI	C5					
40						INC TIG-09.04.00.51	H					
40						INC TIG-08.01.01.10	AB					

From this....

[illegible]

To this....

A few other things to consider



Master Data Management (MDM)

Effective master data management guarantees that data is accurate, aligned with business objectives and used to drive better business



In the right place

Format, access and distribute data anywhere



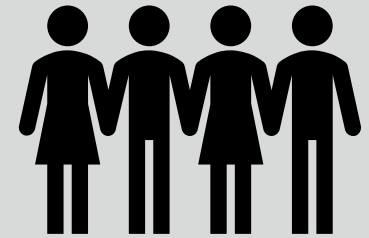
At the right time

Create and manage a single view of data used by all areas of the company



In the right format

Validated, standardized; Make data accurate, consistent and fit for use

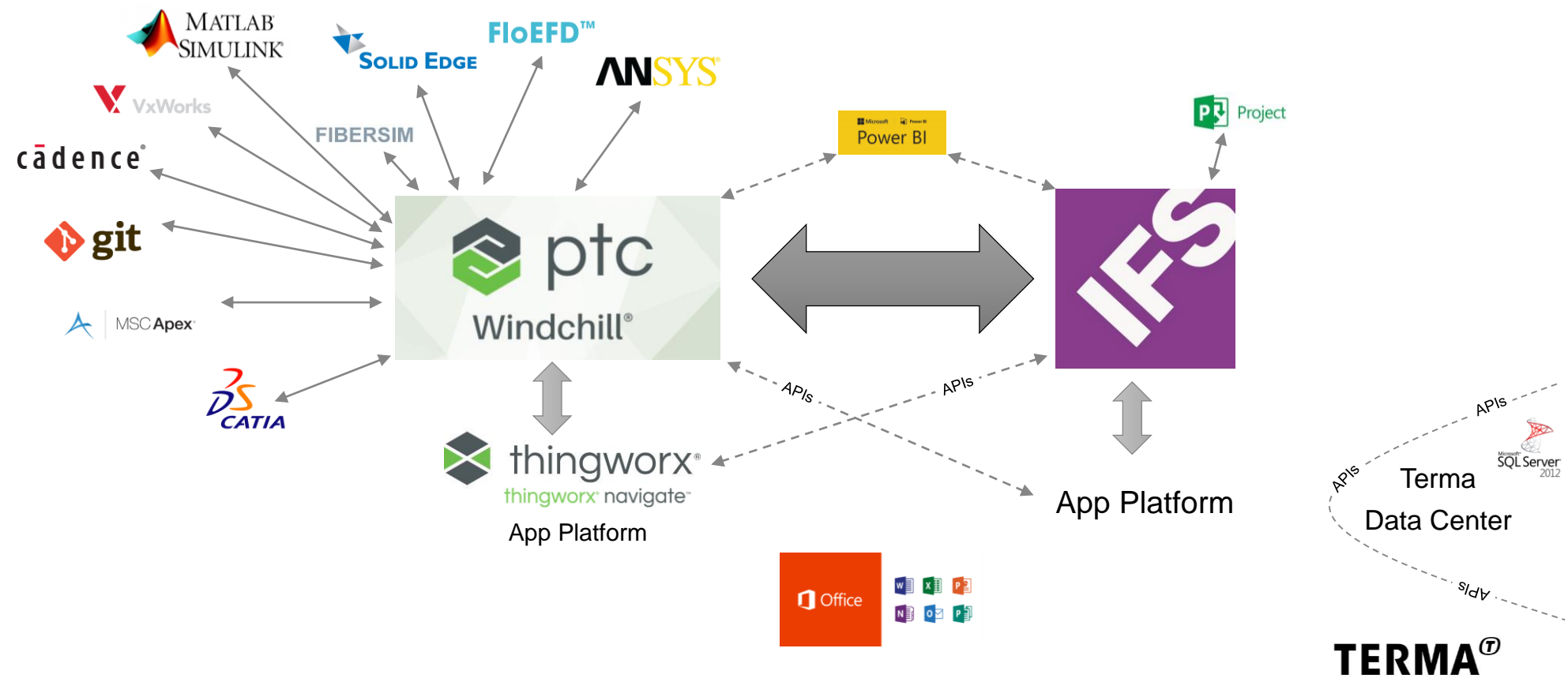


For all users

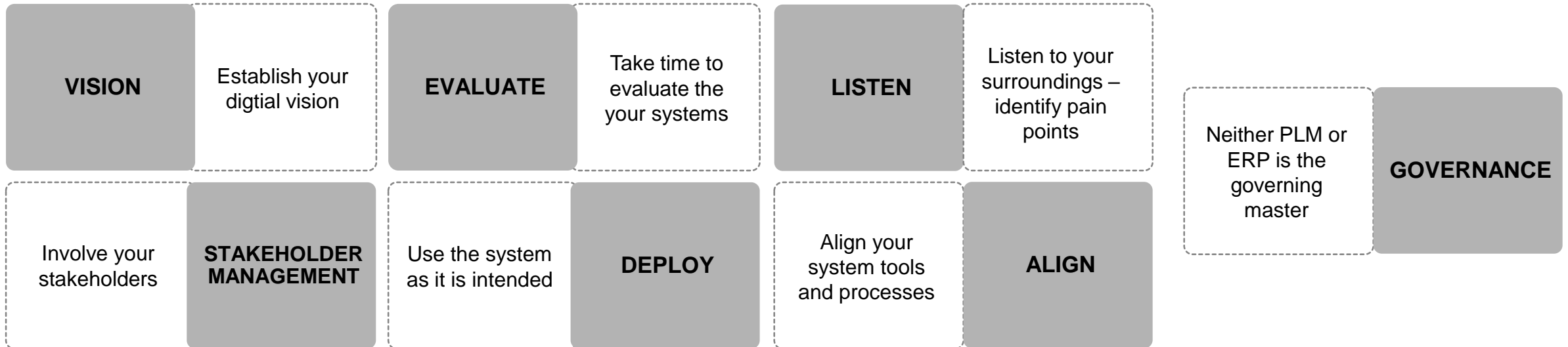
Owner identified, usage and format governed, business semantics applied

Across the entire value chain.....

Future Terma IT Architecture (super simplified)



Key Take-aways





THANK YOU