



Planned SIG Meeting

ASSET DYNAMICS



JOIN ASSET DYNAMICS!

Kick-off meeting Special Interest Group (SIG)
Wednesday July 20, Aula Room B, 12.30hrs

○Initiators:

- Arjen Ros MBA, Copernicos Groep
- Michel Kuijter MSc, Copernicos Groep



Resources

Process

Performance

Change Agents in Asset Management

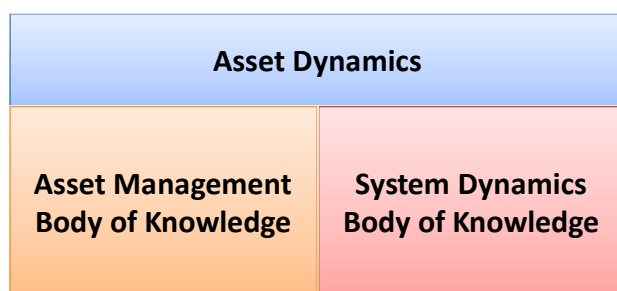
- We are specialized in Asset Management (AM)
 - Life Cycle Management of complex technical systems
 - With many actors involved
 - With different perspectives and specialisms
- We believe in, and facilitate, co-creation and integral thinking
- That's why we are convinced System Dynamics (SD) can contribute a lot to Asset Management
- We are practitioners of SD in the field of AM



Program

- Introduction to Planned SIG Meeting => to found the SIG
- Introduction to Asset Dynamics
- Introduction to working process of this Planned SIG
- Conclusions in founding SIG

Scope of Asset Dynamics



Asset Dynamics is built on its foundation:

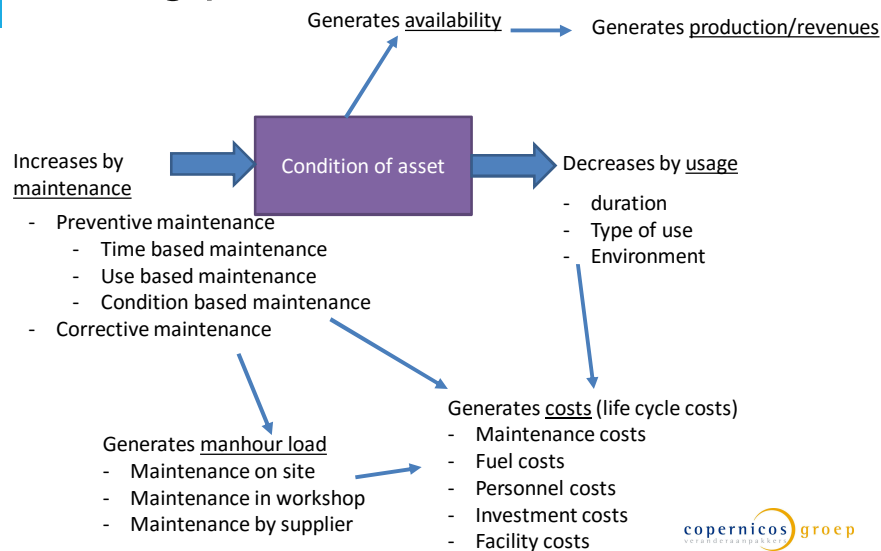
- Asset Management
- System Dynamics

Scope of Asset Dynamics



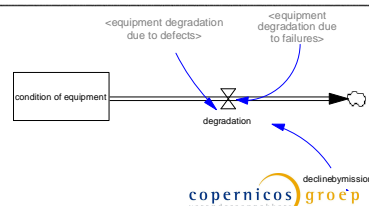
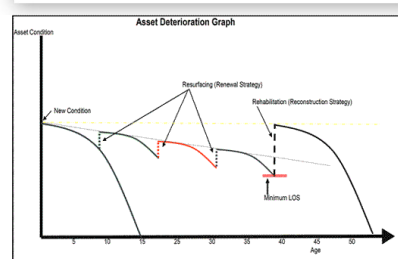
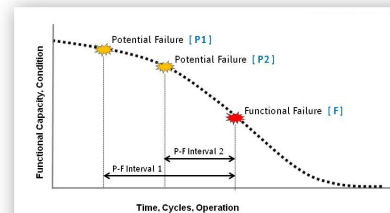
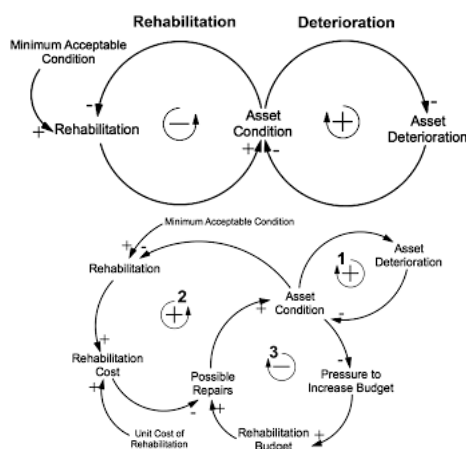
Connecting mental models
in an organizational
learning process

The condition of an asset is starting point and main focus



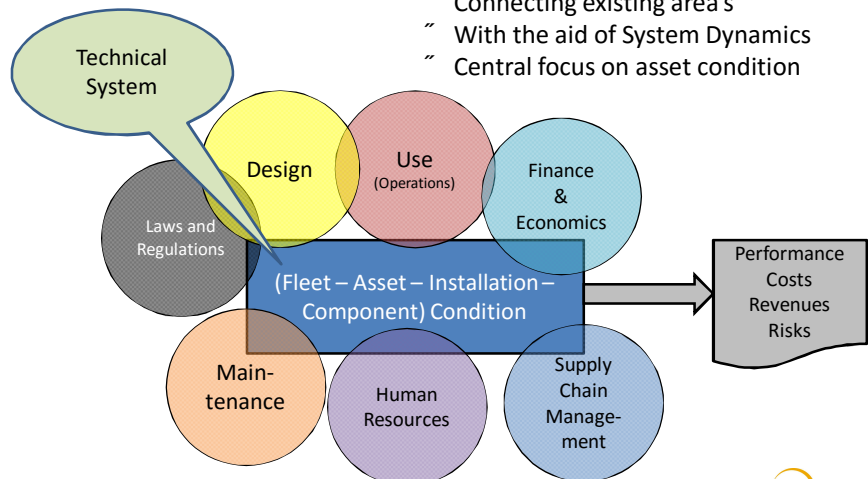
Asset Condition

Deterioration model of an asset



Scope of Asset Dynamics

- “ Exploring the area of Asset Management
- “ Connecting existing area's
- “ With the aid of System Dynamics
- “ Central focus on asset condition



SDS Threads related with AD

- Business (System Dynamics applications in businesses and organizations) => **assets contribute to goals of organizations**
- Human Behavior: The dynamics of human behavior in organizations, culture, including individual and social psychology => **assets are operated and maintained by humans**
- Learning and Teaching: The manner in which system skills are taught and learned => **learning organization is a principle of Asset Management**
- Operations: Like capacity management, quality control, operations management, supply chains, workflow, queuing, and workforce planning => **in Asset Dynamics these issues are driven by the asset's condition**
- Resources: The understanding and management of resources including energy, electricity, fuels, food, metals and other renewable and nonrenewable resources => **in Asset Dynamics the asset's condition is the driving resource**
- Stakeholder Engagement: Engaging and influencing stakeholders through participatory activities such as group model building, facilitation, facilitated modeling, games and management flight simulators => **is the basic approach to create models in Asset Dynamics**

SDS SIGs related with AD



First proposed SIG products

1. Asset Dynamics Reference Model
2. Library of submodels
3. Asset Dynamics Knowledge Base (airtable)
4. Knowledge sharing events (virtual + real life)
5. Asset Dynamics Community

Mechanisms in current Asset Dynamics Reference Model

- Productbreakdown structure of asset (multi level):
- Degradation/recovery behaviour of installations based on composition of type of installation
- Degradation of condition through use of asset
- Degradation of condition through TIME
- Recovery of condition of asset by maintenance
 - Preventive maintenance
 - Corrective maintenance to solve failures
- Priority mechanism for maintenance (risk based)
- Obsolescence of equipment in installations
- Redundancy of equipment in installations
- ELOT (Endlife Of Type) mechanism for installations



SD Conference Papers related to AD

Database (Airtable)



How to make the SIG Asset Dynamics work?

- “ A SIG is (ref. SDS website):
A group of SDS members with a shared interest in a particular domain.

In this case the domain is: Asset Dynamics



How to make the SIG Asset Dynamics work => Preferences?

- Group:
 - LinkedIn Group Asset Dynamics
 - Webinars => platform to share knowledge on specific subjects
 - And/or ??
- Individual contribution
 - exchange knowledge
 - Comment on proposed additions to AD Reference Model
 - And/or ??
- Communication
 - Through SDS facilities
 - Sharepoint platform (moderated by Copernicos)
 - LinkedIn Group
- Close collaboration with Business SIG and support of SDS



Conclusions of SIG Kick-off

- Topics to be scheduled in SIG AD?
- Subjects of interest to be addressed in SIG AD?
- Priorities to take in SIG AD?

- Registration of membership/interest to SIG Asset Dynamics

- Proposal SDS Policy Council

SIG Asset Dynamics: Registered Participants

Registration of participants to Planned SIG Meeting Asset Dynamics, July 20, 2016

nr	Name	Organization	email	Wants to become member of SIG AD (Yes/No)	Is interested in SIG AD (Yes/No)
1	Hank Alkema	WCM/TU	hank@wcm.nl	Y	
2	Quan Zhu	TU	qzhu@tue.nl	Y	Y
3	Bened Linder	TU	bened.linder@tue.nl	Y	Y
4	Mels van Rosmalen	EMSD	mrosmalen@tue.nl	?	Y
5	Jorge Daniel Vieira Silva	EMSD	jvieira.silva@gmail.com	?	Y
6	Agnesa Rogan	NMSU	arogan@nmsu.nl	?	Y
7	Yan Wang	TU/TU	y.wang123@gmail.com	?	Y
8	Guido Veldhuis	TNO	g.veldhuis@tno.nl	Y	Y
9	Christian K. Karc	University Duisburg	christian.karc@uni-due.de	Y	Y
10	Daniel Jauch	FAU, University Erlangen	daniel.jauch@fhn.de	Y	Y
11	Marko Vissers	via Delbora	M.Vissers@delbora.nl	Y	Y
12	Bernard Tjebbes	UCL	bernard.tjebbes@ucl.ac.uk	Y	Y
13	Kasper Rijkers			Y	Y
14	Yara Rinaa Eppend	TU Delft	yara_rinaa@tue.nl	Y	Y
15	Mark de Bel	Delbora	mark.debel@delbora.nl	Y	Y
16	Sven Kuch	Delbora	s.kuch@delbora.nl	Y	Y
17	John Weebers	Kolb, Weebers, Kuch	john.weebers@tms.nl	Y	Y
18	Bram van der Horst	TU Delft	bram.vanderhorst@tue.nl	Y	Y
19	Michiel Weebers	ZEP	weebersm@hohmann.nl	Y	Y



The image shows a business card or flyer for Copernicos Group. The top half features a blue background with a repeating white geometric pattern of interlocking circles. Overlaid on this is the company logo, which consists of the word "copernicos" in a dark blue sans-serif font, followed by a stylized orange and yellow circular graphic, and then the word "groep" in a bold orange sans-serif font. Below "copernicos" is the tagline "veranderaanpakkers" in a smaller, lighter blue font. The bottom half of the card has a white background. On the left, it asks "Want to know more about Asset Dynamics?" and provides contact information for the Copernicos Group. On the right, it lists two individuals: Arjen Ros and Michel Kuijer, each with their phone number and email address.

Want to know more about Asset Dynamics?

Contact Copernicos Group
the change agents in asset management

Arjen Ros
+31 (0)6 – 10 966 146
arjen.ros@copernicos.com

Michel Kuijer
+31 (0)6 – 51 840 522
michel.kuijer@copernicos.com