

* proactive maintenance

* Offshore wind association
Rum - Norw. ~~Collaboration~~

<http://cwi.unik.no/wiki/EEA>

http://cwi.unik.no/wiki/Romania_Norway_Collaboration

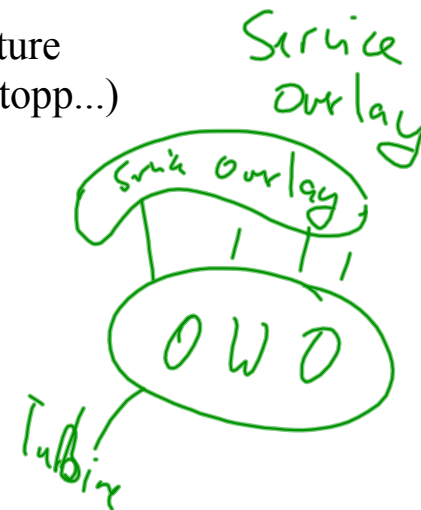
Wind turbin, offshore wind, services on top of infrastructure

* Stefan Castravete, General Manager, caelynX Europe (topp...)

* Trinh - UiA -> link to offshore wind...

* (Statoil?) - Bjarne

Norwegian



GoToMeeting Viewer
 Webcams Zoom: 78%
 Now viewing Trinh's screen

Science News, Articles x Wind energy multiple x Citrix Online
 127.0.0.1:8093/WindEnergy/Wind_energy_multi_graphs.html

Current month

Status: WARNING! Maintenance needs to be scheduled
 Max force: 122.5×10^2 [N]
 Current force: $19.37098775506529 \times 10^2$ [N]

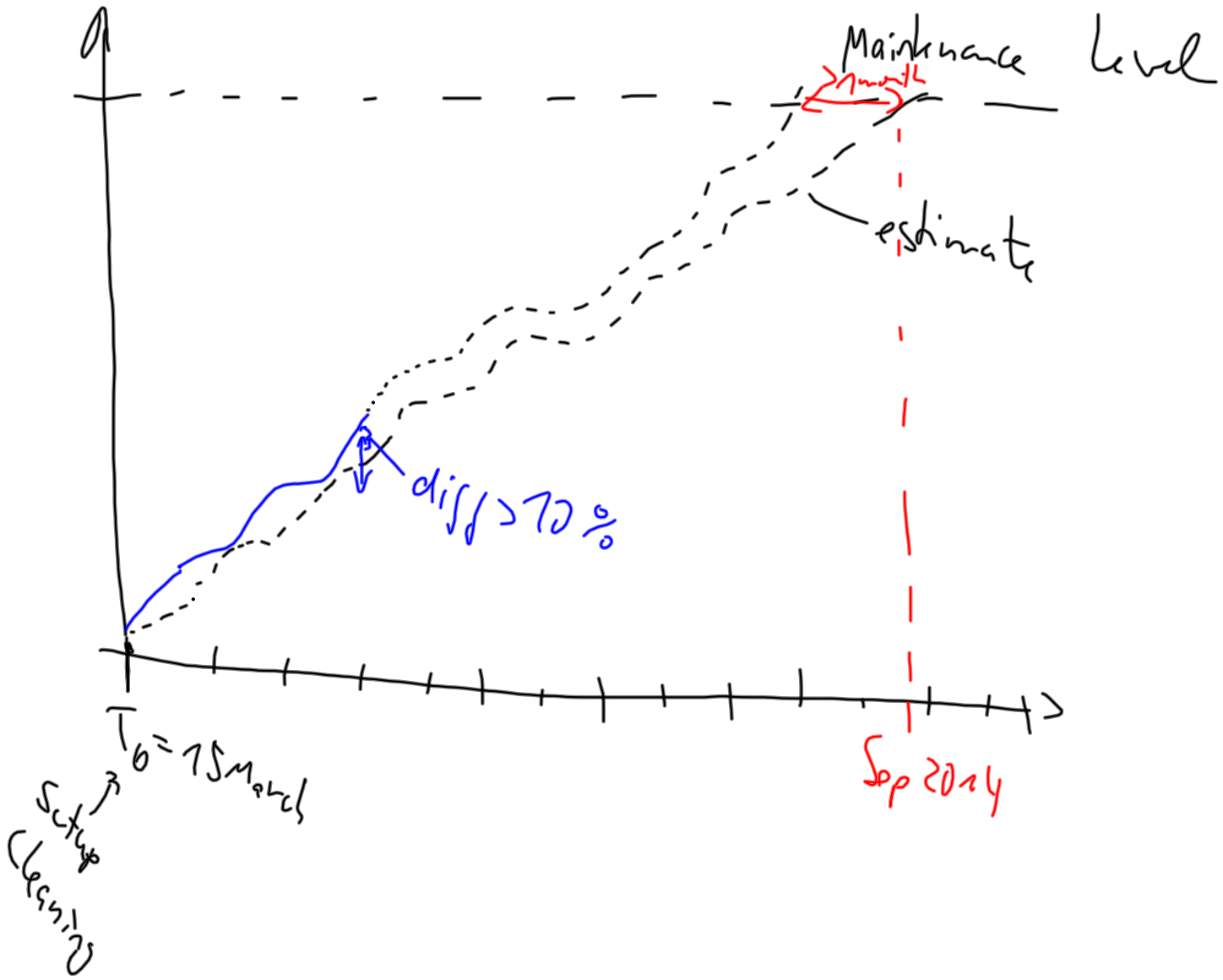
Wind speed prediction [m/s]
 Upperbound force [N] x 10²

Jun 1 Jun 3 Jun 5 Jun 7 Jun 9 Jun 11 Jun 13 Jun 15 Jun 17 Jun 19 Jun 21 Jun 23 Jun 25 Jun 27 Jun 29

Total extra force [N] x 10²
 Upperbound extra force in Jun 2012 [N] x 10²

Maksimal vekt
 1.1. max force (122.5 x 10² N)
 gennemsnit
 June

citrix



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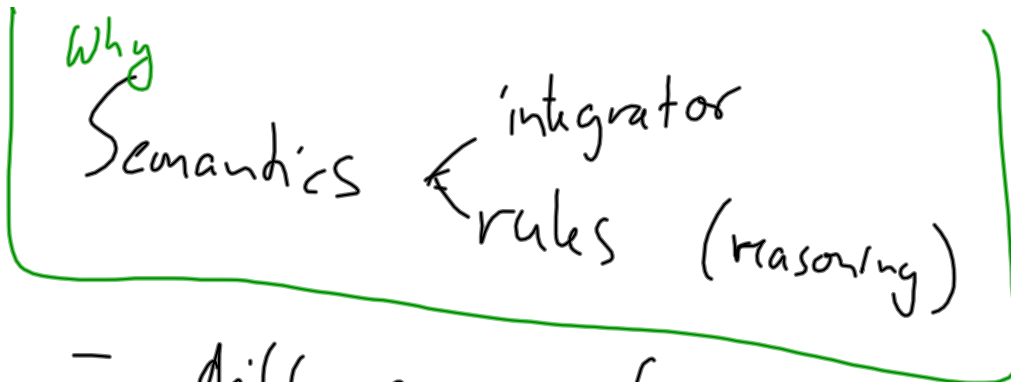
Current month

Status: WARNING! Maintenance needs to be scheduled
 Max force: 122.5 x10² [N]
 Current force: 277.63804489070577 x10² [N]

Jan 2012 Feb 2012 Mar 2012 Apr 2012 May 2012 Jun 2012 Jul 2012 Aug 2012 Sep 2012 Oct 2012 Nov 2012 Dec 2012

Jun 1 Jun 3 Jun 5 Jun 7 Jun 9 Jun 11 Jun 13 Jun 15 Jun 17 Jun 19 Jun 21 Jun 23 Jun 25 Jun 27 Jun 29

citrix



Outcome

"optimized maintenance"

↳ cost effective

→ 10 years

→ 15 years

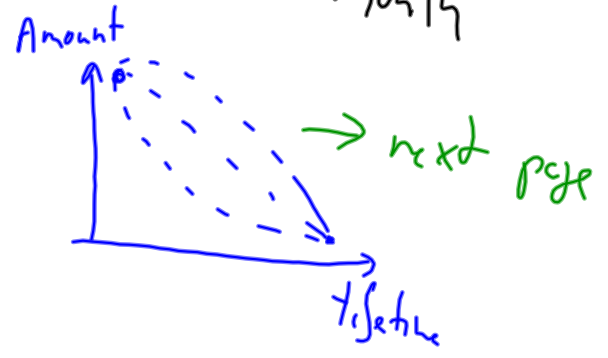
- diff. sources for maintenance

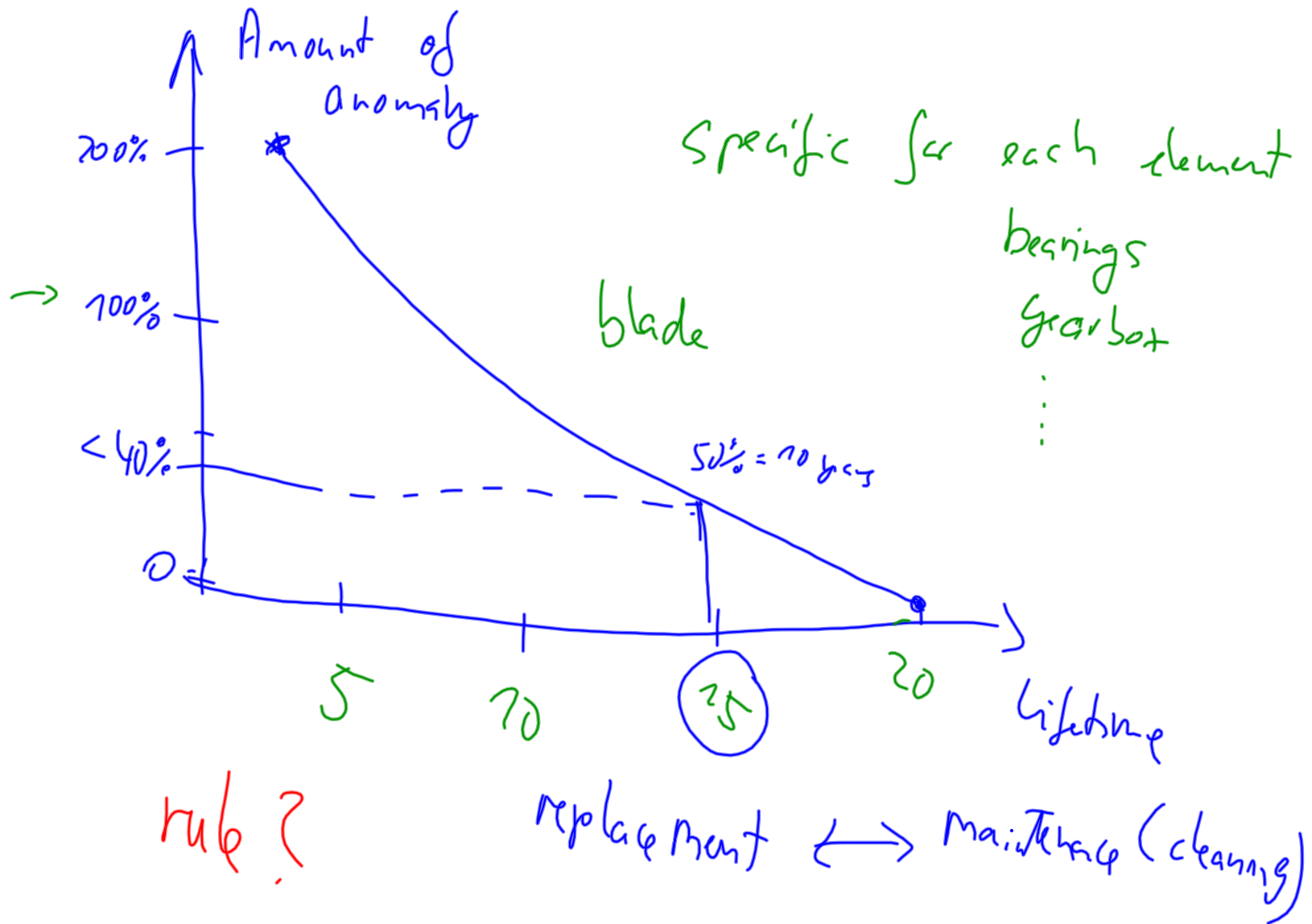
gear, bearings, blades, ...

"

↳ individual maintenance month

- lifetime costs *optimization*
blade + dust >





1. Maintenance ontology

