

BREAKOUT SESSION

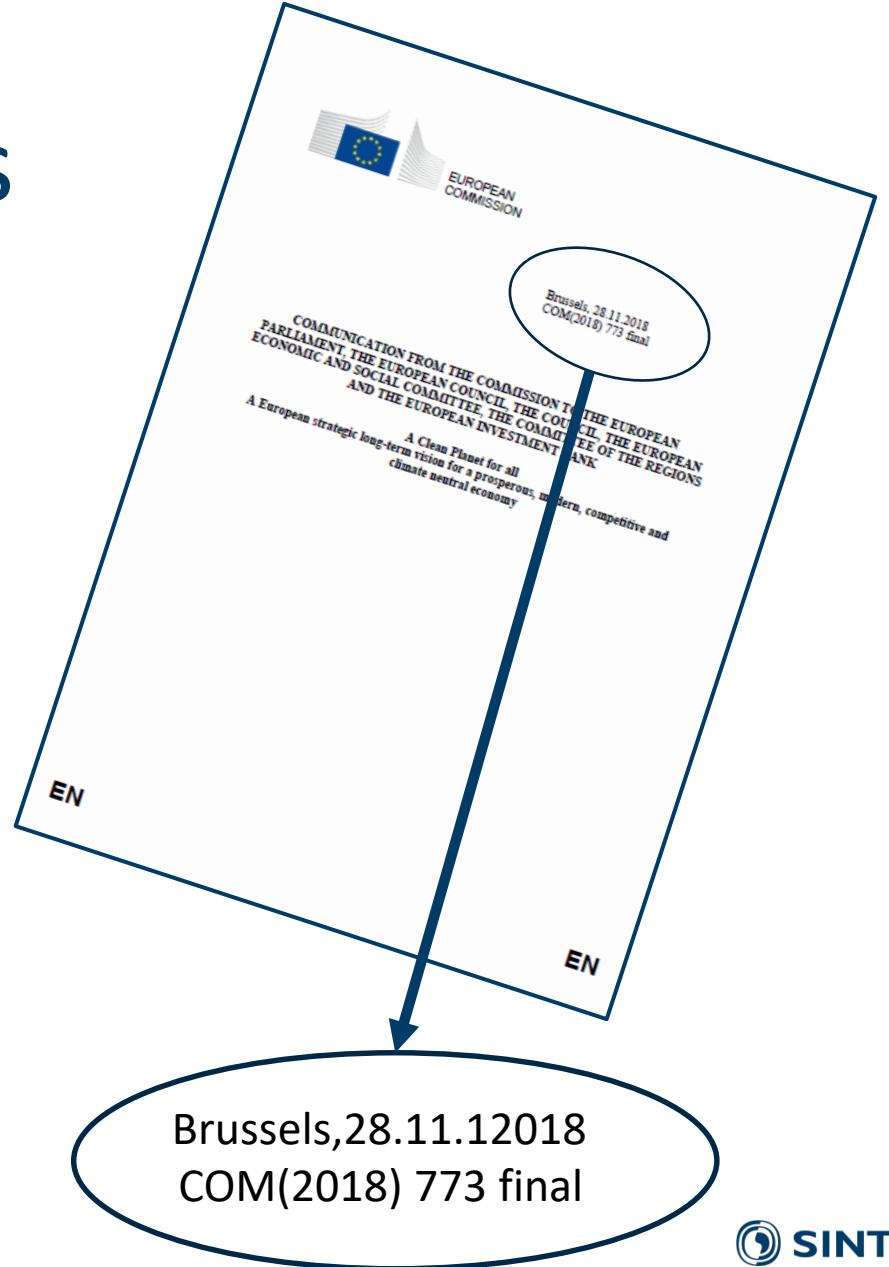
Michael Belsnes, Birger Mo, Hans Ivar
Skjeldbred, Ellen Aasgård & Arild Helseth

Groups

Group 1	Group 2	Group 3	Group 4
Birger Mo	Arild Helseth	Hans Ivar Skjelbred	Michael Belsnes
Bjørn Austrud	Ståle Huse	Frank Böttcher	Kristoffer Føllesdal
Tarjei L. Riise	Tor Halvor Bolkesjø	Mathias Mølbak	Marko Nieminen
Jussi Mäkalä	Nils Flaten	Thor Bøckman	Kristin Nilssen
Vegard B. Kyllingstad	Martin Hjelmeland	Øyvind F. Høivik	Rune Valle
Harald Endresen	Valentin Koestler	Bjørn Holmvik	Ellen Aasgård
Bernt Garten Galtrud	Per Eilif Wahl	Sten-Enok Wersland	Anne B. Aasen
Andreas Billington	Roy A. Syversrud	Geir Warland	Ragnhild Bjartnes
Arve Tveter Iversen	Fredd Kristiansen	Ole Andreas Ramsdal	Tellef J. Larsen
Ivar H. Døskeland	Erik Böhlmark	Gro Klæboe	Gunnar Aronsen
Bo Wrang			

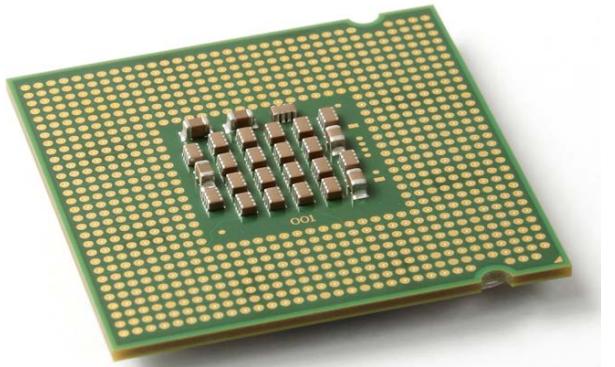
Framework for the questions

- A Clean Planet for all
 - Active consumers, prosumers and new market designs
- Sustainability of the power sector
 - Circular economy, electrification
- Development of the Nordic system
- Water framework and revision processes
- Tools that are important for the ACER discussion



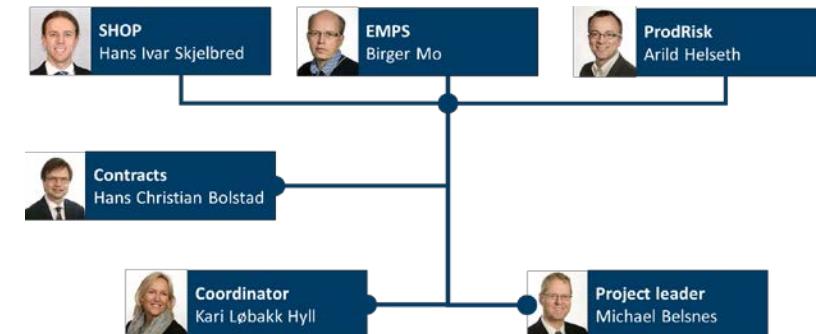
1: IT Technology

- What are the improvements triggered by IT that you would like to see in the next years
 - Improvements that will facilitate further model use
 - Technology and architecture trends that you would consider important for SINTEF to use or relate to.
 - What competence would you expect SINTEF to have? Should it be inhouse or south out when needed?



2: Management

- What are the improvements you would expect in management of the models and what would the benefit for your company be
 - Suggested changes in management of the tools
 - Organization
 - Deliveries
 - Input and output
 - How to improve delivery of new versions
 - Suggestions regarding documentation
 - What would represent the largest benefit for you as user



3: What to model?

- What are the important questions the models need to answer to stay relevant regarding the energy transition towards 2050. As renewable penetration increase, the consumer have new choices and smart components enters the power industry
 - What objectives should the models be able to handle and when
 - Important gaps in modelling that needs to be included and when will they be important
 - What are the main challenges the models will face compared to industry development and competition
 - What analysis should the models be able to perform

Organization

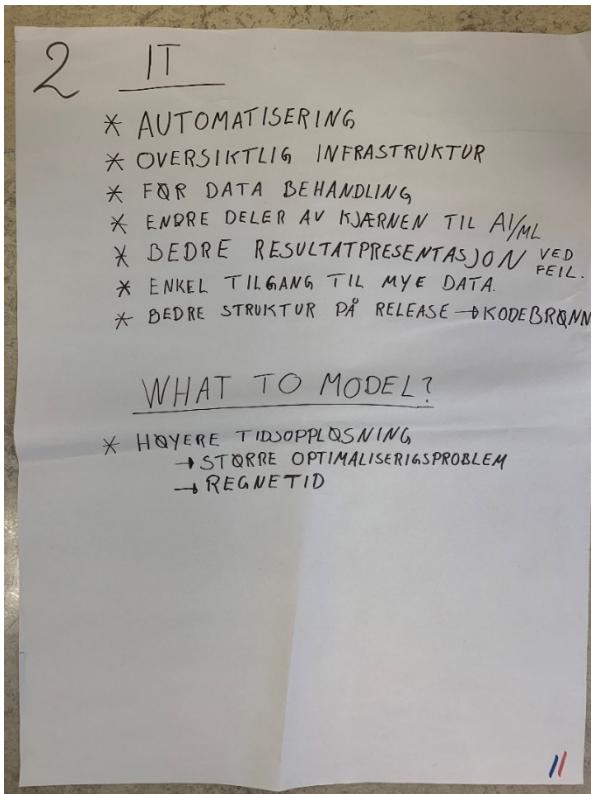
- Each group will select a facilitator that will give an introduction to the result in plenum
 - A discussion/summary at the end of the day
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- The next step will be for the management group to implement the result in the work for 2019 and in an updated roadmap for 2019-2021

Results from the groups

Group 1 (Birger Mo)

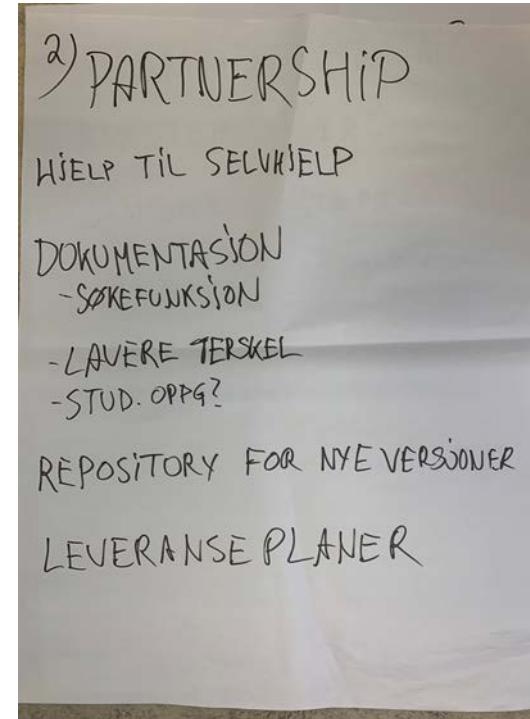
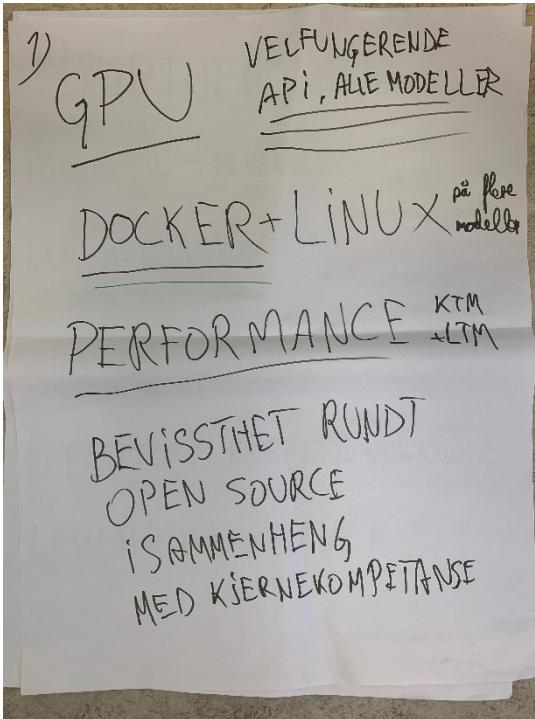
- Diskuterte V10

Group 2 (Arild Helseth)

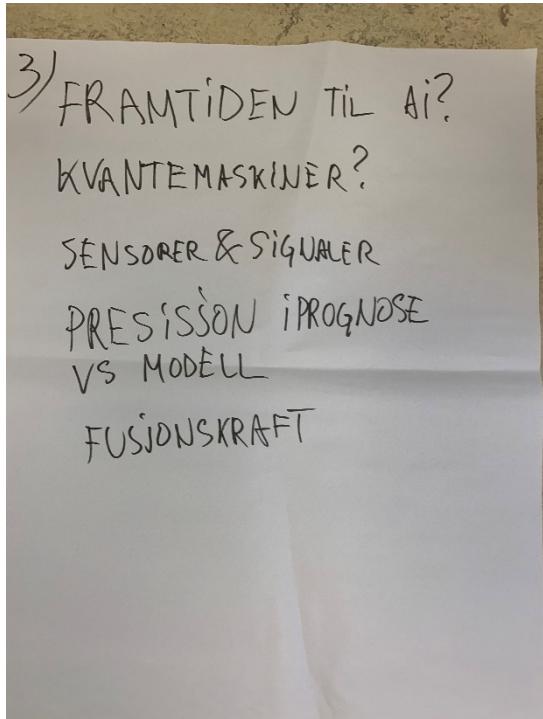


- Programmene kan i større grad automatisk sjekke inngangsdata, for eksempel hvis ufysisk input rettes dette av programmet
- Resultatpresentasjon ved feillogging, programmet kan i større grad avsløre feil.
- SINTEF: inhouse vs ekstern
 - Kan vi bruke SINTEF IKT? Andre i SINTEF for å profesjonalisere? (Lyse)
 - SHOP-docker mulig å få dette til med LTM (Lyse)
 - Modularisering er viktig -- viktig med robust og godt dokumentert API
- Enkel tilgang til mye data viktig
- API'et i SHOP ikke fullgod erstatning for "manuell" kjøring
- Docker/Cotainer fremfor mange filer
- SINTEF bør strukturere programvareutgivelse: "release", "latest", etc
- Fremtiden: kortere tidsoppløsning, må jobbe ned regnetiden (Statkraft).
- Enmagasin vil ikke lengre være godt nok, ikke pumpe/lager (flere)

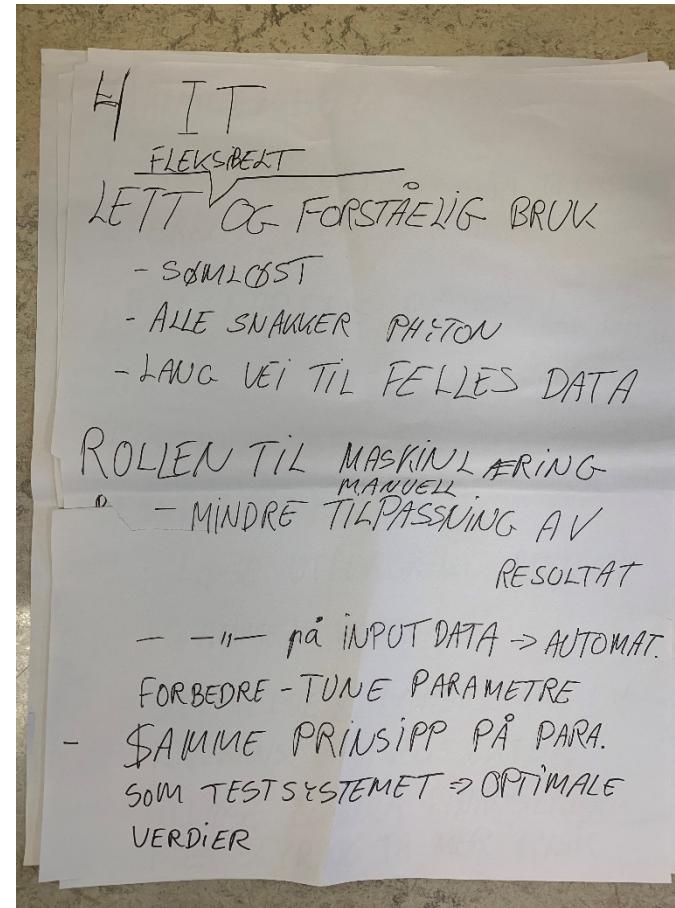
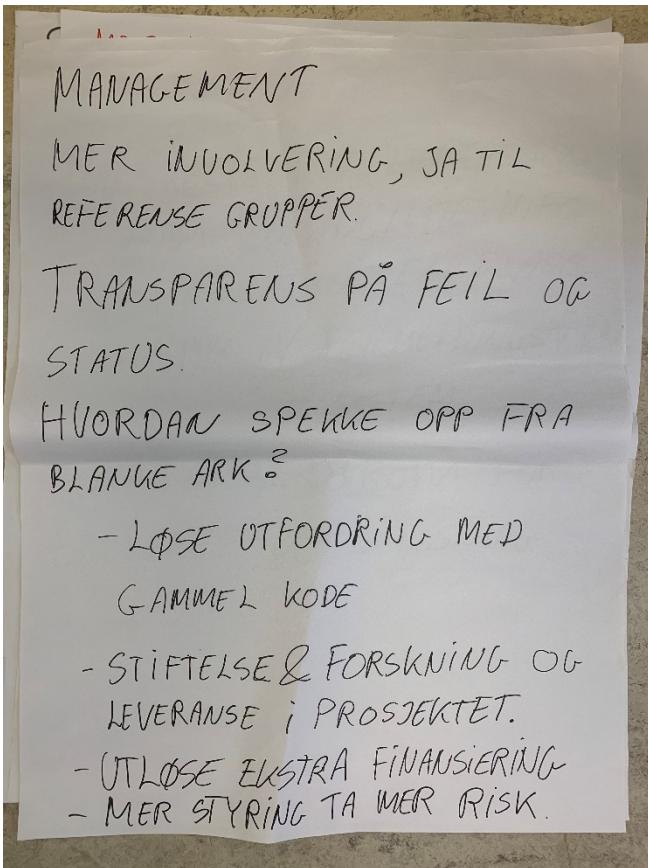
Group 3 (Hans Ivar Skjelbred)



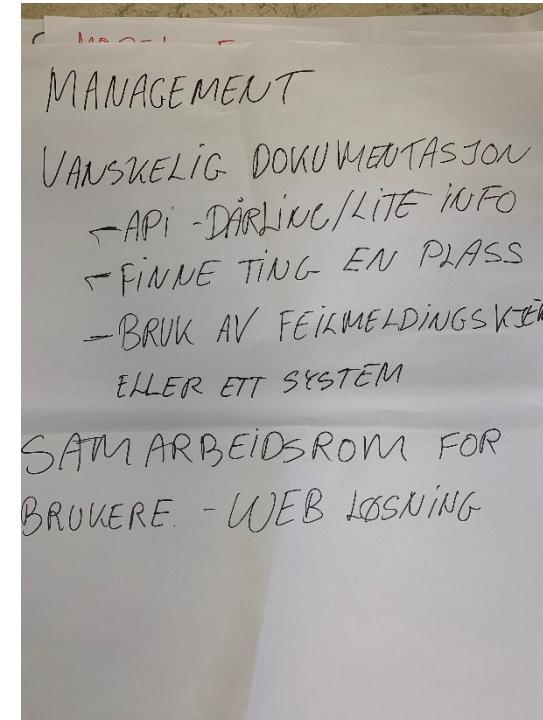
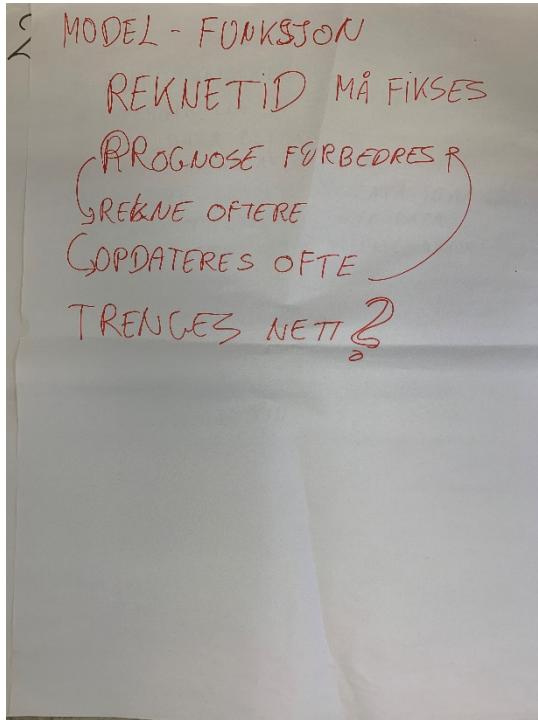
Group 3 - continued



Group 4 (Michael Belsnes)



Group 4 Continued





Teknologi for et bedre samfunn