

Fire research funding impact; a Norwegian case study

Nina Reitan, CEO, RISE Fire Research AS





Photo: istockphoto.com/klyaksun



Photo: istockphoto/PIXEL



Photo: istockphoto.com/ANATOLIY Arkhipenko



Photo: Trøndelag brann og redningstjeneste IKS



Photo: istockphoto.com/Scharfsinn86



Photo: istockphoto.com/Vasyl Dolmatov



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Photo: RISE Fire Research AS

Who are we?

RISE Fire Research

- Established i 1934
- Localised in Trondheim
- 40 employees
- Accredited fire test laboratory and research institute (as per RCN)
- Owned by two large research institutes:
RISE Research Institutes of Sweden (70 %) and SINTEF (30 %)



Foto: RISE Fire Research AS

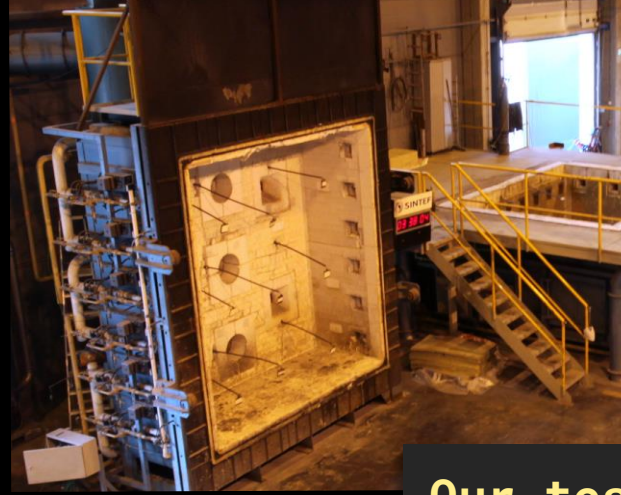
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Photo: RISE Fire Research AS



Our test lab





Increased fire research depends on close dialogue and mutual understanding between the fire research community and stakeholders in the different sectors.

Norway in a sustainability perspective (fire safety concerns?)

- Innovative in complex timber constructions.
- Vehicles with new fuels will be driving through the many tunnels.

Photo: istockphoto.com/Ole Christian Flaam

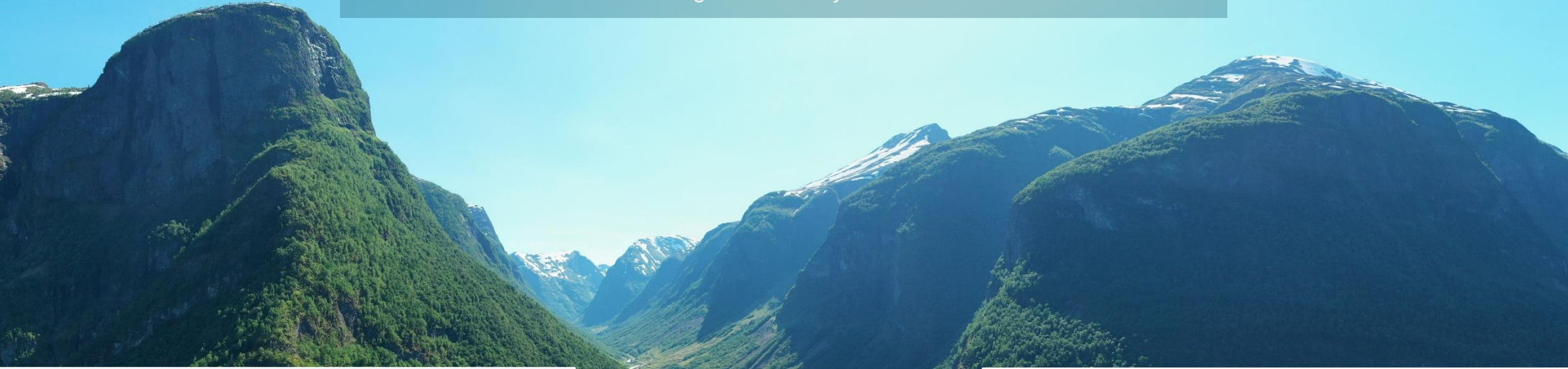


Photo: istockphoto.com/40677



Photo: istockphoto.com/vladacanon

RI-
SE

MF Ampere



Photo: Corvus Energy

Norway in a sustainability perspective (fire safety concerns?)

- Leading on in alternative fuels in shipping (batteries, liquid hydrogen, ammonia),
- World-leading in number of EVs per capita.

MF Hydra



Photo: Norled

Viking Energy



Photo: Eidesvik

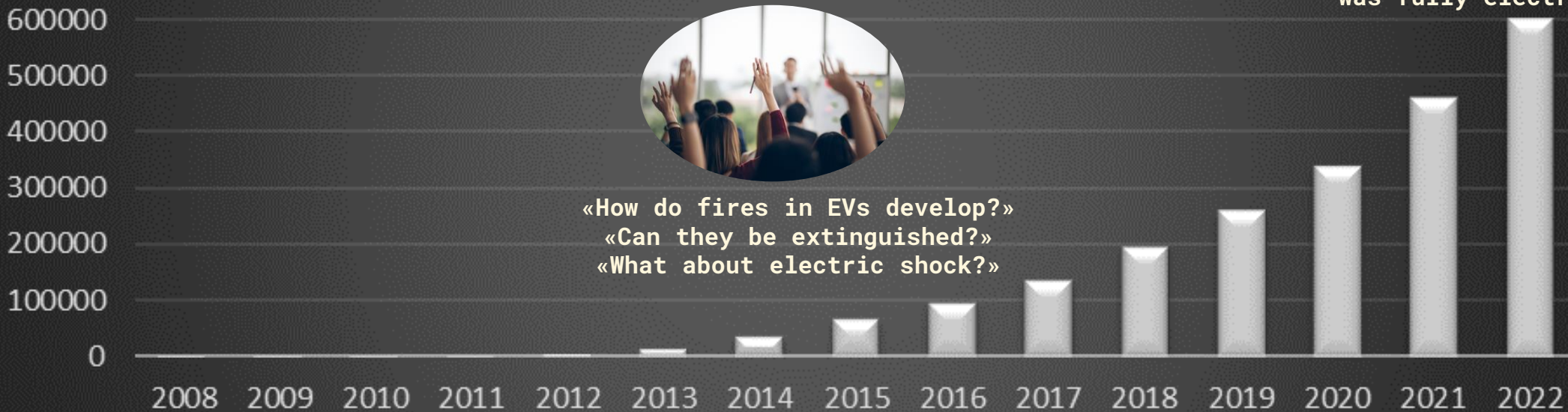


RISE

Photo: istockphoto.com/Beatriz Montes Duran

Number of EV passenger cars in Norway

80% of all new passenger cars in 2022 was fully electric



«How do fires in EVs develop?»
 «Can they be extinguished?»
 «What about electric shock?»

When new innovations are being developed faster than knowledge about risks; incorrect information and sensationalism in media may cause unnessecary fear and restrictions.

«Gasbussar rullande brandbomber»

publicerat av ULO • 20 NOVEMBER 2013 • SIDA FOR UTSKRIFT



Rullande brandbomber som zotts? Foto: Ulo Massing



Tesla tok fyr under hurtiglading

Like før klokken to fikk politiet melding om en Tesla i full fyr på Brokelandsheia.



Ruter parkerer hydrogenbus og stenger fylleanlegg etter eksplosjonen i Sandvika

Etter eksplosjonen på hydrogenstasjonen i Sandvika tar nå Ruter hydrogenbussene midlertidig ut av drift og stenger i tillegg hydrogen på Rosenholm.



Ekspert om Sola-brannen: – Elbiler helt irrelevant

Tora Lind Berg • 8. januar 2020 19:22



Forbyr elbil-lading på fergene

Her er bilen som startet brannen på «Pearl of Scandinavia»



Forbud mot gassbiler i kjellere

Med stadig flere biler på gassdrift har også bekymringen meldt seg om konsekvensene av lekkasjer i underjordiske garasjeanlegg. I enkelte andre land er det praktisert forbud mot parkering av gassbiler i underjordiske parkeringsanlegg, men kravet finnes ikke i lovverket. Nå er imidlertid forbud mot parkering av gassbiler kommet inn i Temavelledning for farlige stoffer. Samtidig skjerpes byggereglene for parkeringskjellere.



RISE Fire Research in 2015

An ambition to develop knowledge and information to society about the fire safety of alternative fuels.

Challenge:

- With no strategic funding;
how could we find the resources to:
- develop our competence within the new fields?
 - write research proposals?

Opportunity:

We had some small open research project (5%),
generating publicly available information/reports.

Reports and publications

RISE Fire Research has published reports for years. You can search for the publication you're looking for below.

Sort by: Year Title Show: Reports Publications Language: Norwegian English

SEARCH

☰



Brann i holrom bak royalojebehandla kledning av furu

Reidar Stølen, Mikael Bergius, Janne Siren Fjærstad
2022 • NO • 2022:05

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Effektiv, skånsom og miljøvennlig sløkking av brann i mindre bygningenheter

Christoph Meraner, Edvard Aamodt, Karolina Storesund, Trond Wingdahl, Ole Anders Holmvaag
2021 • NO • 2021:73

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From petrol station to multifuel energy station: Changes in fire and explosion safety

Ragni Fjellgaard Mikalsen, Andreas Sæter Bøe, Christoph Meraner, Reidar Stølen
2021 • EN • 2021:26

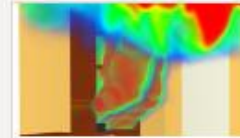
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Vurdering av branntekniske egenskaper til fasadekledning av tre

Anne Steen-Hansen, Robert Harley Mostad
2021 • NO • 2021:61

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Avgassing fra litium-ion batterier i hjemmet

Christoph Meraner, Tian Li, Cristina Sanfeliu Meliá
2021 • NO • 2021:17

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Sikkerhetsbehov for kullgriller i restauranter

Edvard Aamodt, Birger Rønning
2021 • NO • 2020:83

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Evaluation of fire in Stavanger airport car park 7 January 2020

Karolina Storesund, Christian Sæsseng, Ragni F. Mikalsen, Ole Anders Holmvaag, Anne Steen-Hansen
2020 • EN • 2020:91

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BRAVENT - Tetting av ventilasjonsfilter med brannrøyk

Reidar Stølen, Andreas Sæter Bøe
2021 • NO • 2021:32

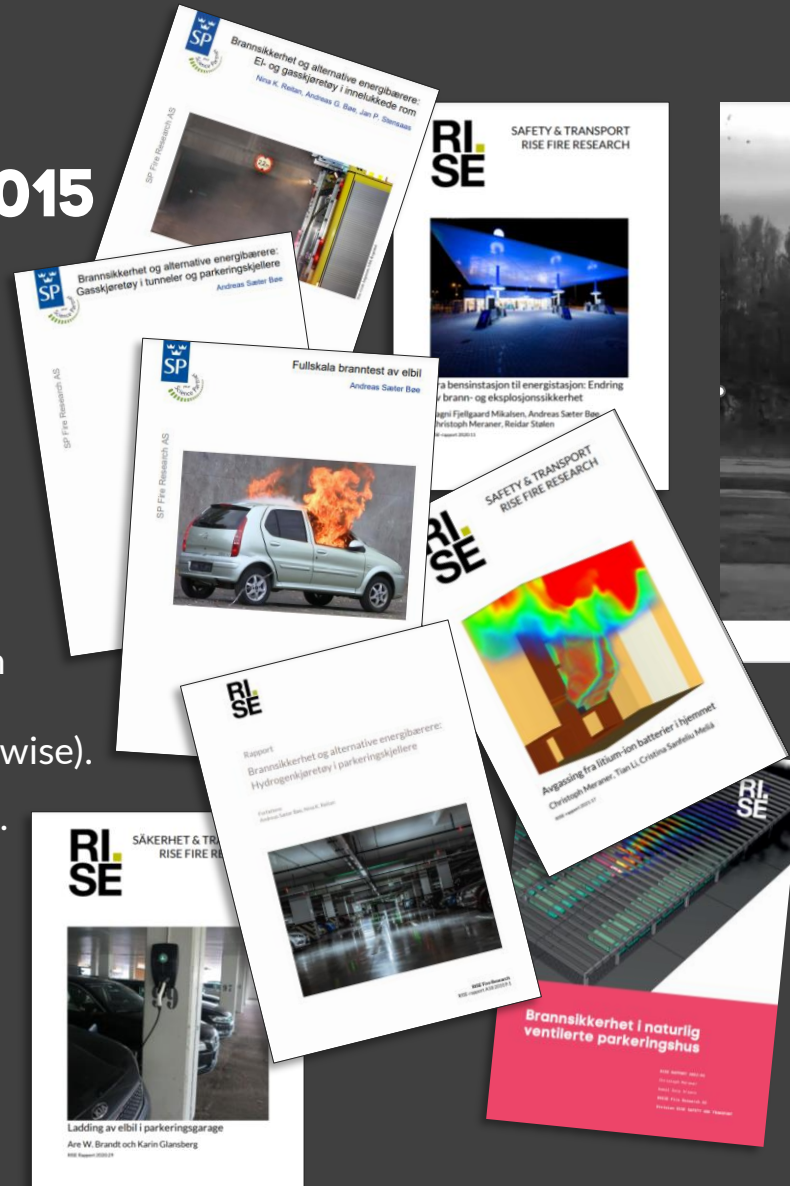
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RISE Fire Research in 2015

Our strategy:

- ! Utilise the small open projects to build future competence and network within strategic topics.
- ! Be relevant
 - Have a broad focus and find our place in cross disciplinary research (follow national and EU strategies topic wise).
 - Identify stakeholders and collaborators. Create synergies.
- ! Utilize financial support schemes





A ripple effect in research activity

- SH2IFT
- Battmarine
- Partikle



IMPROVER



LASH FIRE

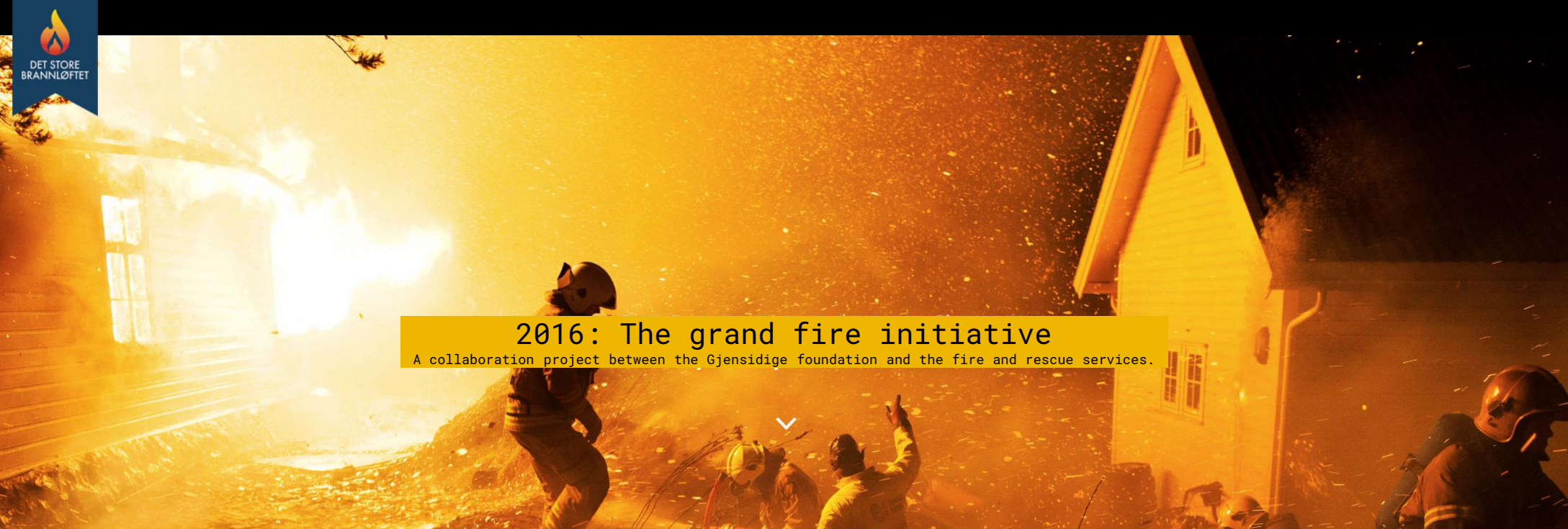


TREEADS



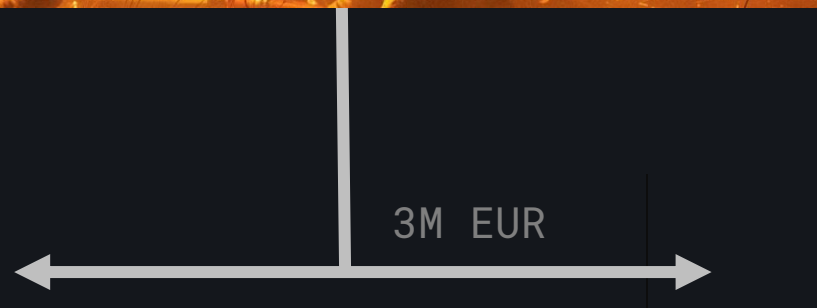
- FRIC**
- ERA-Net
 - HERO
 - BRAVENT
 - SH2IFT2
 - AMAZE

Yellow circles show the Research Council of Norway's financial support to Norwegian research institutes, for writing proposals to H2020 and/or participating in H2020 projects.



2016: The grand fire initiative

A collaboration project between the Gjensidige foundation and the fire and rescue services.



FRiC
FIRE RESEARCH & INNOVATION CENTRE

FRiC

FIRE RESEARCH & INNOVATION CENTRE

Total budget: 7M EUR
Duration: Mar 2019 – Feb 2024
www.fric.no

FRIC impact:

Development and dissemination of knowledge, national and international collaboration, spin-off projects, guidelines, knowledge basis for decision makers, databases, competence (professorships, PhDs, masterstudents, recruitment of researchers), and most important:

A constructive network and platform for knowledge exchange and cross-sectional dialogue about problems, goals and solutions.

 Støttet av
Forskningsrådet



Multiconsult



 asplan viak



NIKU



Treindustrien



stordenso



Fire safety is not a barrier
to sustainable development;
it is a catalyst



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www.fric.no

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SE**