

Subsea Valley

A technology cluster delivering
world leading engineering
from subsea to space



subsea valley™



Norwegian Centres of Expertise

NCE **Energy Technology**

100 years of innovation in Subsea Valley

Subsea Valley is a cluster organisation and Norwegian Center of Expertise (NCE) in Energy Technology that gathers about 200 member companies and partners in the greater capital region of Norway. In addition, we connect and cooperate with key resources globally, from NTNU in Trondheim, Norway to Stanford University in California, US.

By offering infrastructure and initiatives for collaboration, innovation, knowledge transfer and new insight, we help our members adapt to, benefit from, and contribute to an energy industry in transition.

The Subsea Valley region has strong traditions in industrial value creation. 100 years ago we built ships, 50 years ago we designed oil platforms, and 25 years ago we created the first subsea solutions. Today, the region is a hub for world leading subsea engineering, as well as a strong force in the energy transition and digitalisation of the energy industry.

The energy industry of the future is shaped by growing demand for renewable energy and sustainable solutions, increased efficiency and digital transformation. The Subsea Valley member companies are now in transition to utilise competence and technology across all these areas, while remaining true to their traditional core focus of contributing to an ever more efficient, safe and sustainable oil & gas industry.

200
MEMBER COMPANIES

31 400
PROFESSIONALS

50,3^{NOK bn}
ADDED VALUE



subsea valley™



Norwegian Centres of Expertise
NCE Energy Technology



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INDEX

06

ARUNDO

07



08



09



10



11



12



13



14



15



16



17



18



19



ARUNDO

With primary offices in Oslo, Houston and Silicon Valley, Arundo Analytics provides cloud-based and edge-enabled software for the deployment and management of enterprise-scale industrial analytics applications.

Arundo's software connects industrial data to advanced models and model insights to business decisions. This enables industrial companies to increase revenue, reduce costs and mitigate risks.

In 2016, Arundo graduated from Stanford University's StartX accelerator program and subsequently received investment from the Stanford-StartX Fund. In 2017, Arundo was named to the MIT STEX25 by the Massachusetts Institute of Technology Startup Exchange (MIT STEX). MIT STEX25 recognizes select companies from a pool of more than 1,000 MIT-connected startups as being particularly well-suited for industry collaboration based on technical and commercial success.



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🐦 [@arundoanalytics](https://twitter.com/arundoanalytics)



Cognite

Cognite is a Norwegian SaaS technology company with ambition of providing the world's best industrial IOT data platform.

The strength of the platform lies with its ability to contextualize all industrial data types. Once contextualized, the Cognite Data Platform provides extensive toolkits and APIs to build unlimited models and applications and unlock the data's value for its end customers.

The applications are immense, from wind and energy to shipping, offshore and transportation. Cognite's technology is in daily operation at large industrial companies.



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World Class Solutions for Ocean Space & Extreme Environments

Fosstech is a leading technology company, with 20 years competence and experience in lean-production, within these markets:

- Oil & Gas
- Naval Defence
- Maritime Applications
- Aquaculture/Fishery
- Public Road Administration

Our capabilities include:

- R&D/Engineering
- AM/3D Printing
- Cable-Production/Watertight Connectors
- Encapsulation/Molding of Electronics, like Transducers, Sensors etc.
- Mechatronics/Electro-Mech
- Assembly/Control-Systems



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REDUCING OPERATIONAL RISK

H. Henriksen AS is a technology company with a long and proud history within the maritime and the offshore sector. The company has a strong position within safe MOB boat lifting operations, Launch & Recovery systems for offshore vessels, and Entering and Boarding Systems for both maritime and urban environments.

Henriksen was founded in 1856 based on the maritime industry, and is located in South-East Norway. Henriksen has a brand vision that is rooted in over 160 years of experience. Our vision has been shaped by our founding fathers and many generations of forefathers. Their first-hand experience and challenges has over time proven the true overreaching vision for Henriksen to always look forward with the intent of creating safer operational conditions.

We are committed to create safer operational conditions worldwide. The Henriksen slogan is **"Reducing Operational Risk."**



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HTS maskinteknikk

We combine cutting-edge technology, capacity and human capital, to deliver flawless quality products. HTS maskinteknikk is a leading manufacturer and global supplier of high quality mechanical precision components to the subsea-, aerospace- and defense industry. We are specialized in critical machining of advanced materials, and our welding performance within the small-bore segment is world-class with a close to zero-defect capability, highly appreciated by leading oil companies.

Located in Drammen, Norway, and with a production facility over 6000m² we are featuring more than 50 CNC operated machines and provide the latest within production technological solutions. With our recently achieved AS9100 certification we have also demonstrated ambitions to enter the aviation market.

Mid-March, HTS launched its Industry 4.0 initiative ***"HTS 4.0 – Changing the game"***. The initiative includes a comprehensive and offensive technology strategy that takes aim at disrupting the mechanical production industry in Norway. We have always been a front-runner when it comes to technology adoption, and here we want to position ourselves as the market leader within Industry 4.0.



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intertek

Total Quality. Assured.

TOTAL QUALITY. ASSURED.

Intertek is a leading Total Quality Assurance provider to industries worldwide. Our network of more than 1,000 laboratories and offices and over 43,000 people in more than 100 countries, delivers innovative and bespoke Assurance, Testing, Inspection and Certification solutions for our customers' operations and supply chains.

Intertek Total Quality Assurance expertise, delivered consistently with precision, pace and passion, enabling our customers to power ahead safely.



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Companies around the world trust Nemko to assess their products, systems, installations and personnel for conformity with relevant standards and regulations. Since 1933, we have ensured that our customers comply with requirements anywhere in the world.

Our services include pre-compliance, international approval, product and system certifications as well as product testing. Through our offices, laboratories and extensive partner network in Europe, North America, Asia, Middle East and Africa we are able to serve our customers in a reliable, efficient and open manner. We provide local presence coupled with global knowledge. The group employs 500 professionals, whereof 105 in Norway. The corporate management is located in Oslo.

One world - our approval.



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NTI develops and delivers high-tech solutions for the building industry and manufacturing industry. With more than 70 years in business, our experience has taught us to think ahead when it comes to technical development.

Since the beginning, back in 1945 when NTI started to produce drawing boards in Copenhagen, we have always tried to evolve. We entered the digital world as soon as the first cad programs became available in the 1980s.

Today, NTI has become one of Northern Europe's leading suppliers of design, simulation, collaboration and lifecycle software and consulting services to the industry. We have developed our own methodology for helping customers to take advantage of the possibilities with digitalization – NTI METODEN. Despite our growth, we have never let go of the original NTI culture as a family-owned business.

We believe in long-term relationship with our customers, and we strive to fulfill our vision every day: ***"...to be the leading advisor and our customers preferred provider of technology and consulting services for the design and construction industry in Northern Europe."***



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Optime Subsea, established in 2005, is headquartered in Notodden, Norway, with a strong presence in Houston, TX, USA. Being ISO and ASME certified, Optime delivers solutions globally in accordance to all standards and regulations.

As the oil and gas market has evolved, Optime is a leading cost-efficient provider of **innovative subsea controls and intervention products and systems**. Having a long and unique experience in the early planning, design, development and operations of controls and intervention systems, Optime has developed its own in-house products and systems to ensure quality, control and optimization throughout the product life cycle.

Modularization and standardization is embedded in our approach to both our existing, as well as new, design or our subsea controls and intervention systems. With reference to several subsea technologies, operations and projects, Optime is a proud partner with our customers of subsea components, SPC providers, service providers as well as operators.



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PIPEOTECH

NEXT GENERATION SEALING

PIPEOTECH a subsidiary of OTECHOS AS, deliver a revolutionary, certified and proved sealing technology, the DeltaV-Seal™. Creating gas tight seals and eliminating fugitive emissions, even on damaged flange faces.

THE CHALLENGE

Leakage between flanges is a challenge in all industries using pipes and flanges, making them the weakest part of a system. Leading to loss of productivity and at increased environmental and human risk.

THE SOLUTION

DeltaV-Seal™:

- Type approved by DNV-GL
- Robust, one-piece, non-ductile, static, metal-to-metal design
- With no gasket relaxations, no re-tightening of flange bolts is required after installation
- No galvanic corrosion as the Delta V-Seal™ is the same material as the flange

The clever design uses raised ridges on its face which deform during tightening creating a gas tight seal, eliminating fugitive emissions, even on damaged flange faces.

Delta V-Seal™ has exceptional abilities to endure temperature changes making it the preferred choice for steam and cryogenic applications.



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Great management demands great tools

SIMPLI offers consulting and management systems in the fields of quality, safety and environment. Good management requires good tools and we have therefore developed:

- SIMPLI Manage (Management system for ISO)
- SIMPLI Better (Improvement and Non-conformity system with great flexibility)
- SIMPLI App (Reports, cases, checklists)
- SIMPLI GDPR (Structured data, DPIA, cases and actions)

SIMPLI is built on SharePoint and delivered to Office365. The portals are very tightly integrated, and our goal is to let SIMPLI be an improvement factor. SIMPLI is involved in international standardization efforts and is helping to develop the next generation of ISO 9001 and ISO 14001. We therefore advise both the current and future requirements in the fields of environment, quality and safety.

Complete, effective and user-friendly – management systems for the future.



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Swagelok

Engineered to
perform under pressure.

SVAFAS - the Norwegian Swagelok Sales and Service Center

SVAFAS provides solutions for all fluid systems within the Norwegian industry, and have a component range to fit most of your needs. As a supplier of Swagelok products, we can guarantee tightness solutions when you are using our tube fittings, tubing, hoses and valves.

Let us become your high-performance resource for fluid system expertise, helping you with all your fluid management responsibilities; from high-quality product provision, to unique problem resolution through custom solutions.

Our head office and warehouse are located in Stavanger. We also have an office in Porsgrunn.



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Uvdal Maskinfabrikk - Excellence based on experience and expertise

Uvdal Maskinfabrikk is a complete supplier of engineering and production services and our value chain includes engineering, machining, certified welding, assembly and testing.

Uvdal Maskinfabrikk offers production of mechanical parts, assembled products and precision components in advanced materials. Our production facilities consist of precision machinery of the highest quality.

Uvdal Maskinfabrikk also assumes complete responsibility of custom made advanced equipment from conceptualisation to completion and approved product. This encompasses engineering services, design, development, production and service of production solutions, production lines, and special purpose machines.

Uvdal Maskinfabrikk provides our customers with intelligent solutions and extensive production knowledge, so you as a customer can save cost on your products. We are in continuous development in order to meet the needs of our customers.

Dimensional control, NDT, testing and documentation. ISO NS-EN 9001:2015.

Uvdal Maskinfabrikk – High quality, reliable technical solutions and precise delivery.



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Over its 20-year history, Xvision has developed strong relationships with major industrial players, helping them to ensure that their data, systems, products and ideas are understandably conveyed through appropriate messaging.

Through our extensive portfolio of covering all forms of 3D creativity including animation, VR, AR, digital twinning and data visualisation we are able to clearly explain complex messages in a simple and powerful way. When used for marketing, training, education and to visualise data insights, numerous benefits to productivity, efficiency and customer engagement can be achieved.

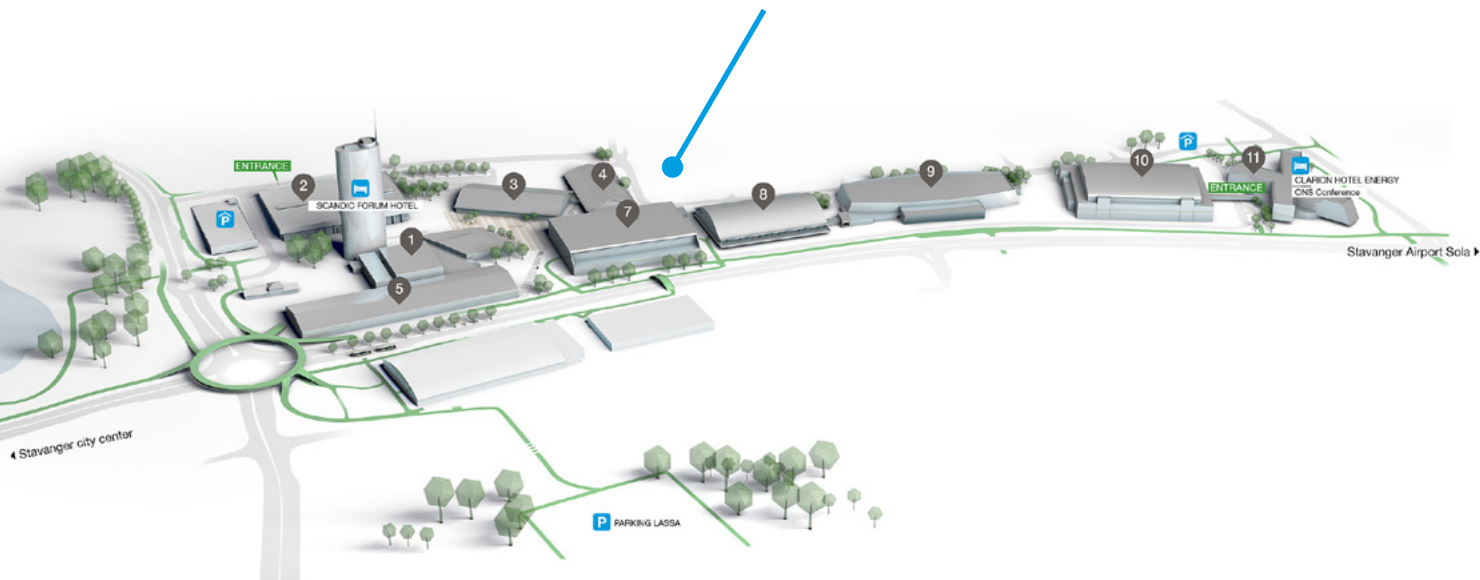


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Come visit **Subsea Valley** and 14 of our member companies
at ONS 2018, **stand 7750, Hall 7.**



ARUNDO


Cognite

 FossTech

 HENRIKSEN
REDUCING OPERATIONAL RISK

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