














# Utdanning og kompetanse

**KVÆRNER™**

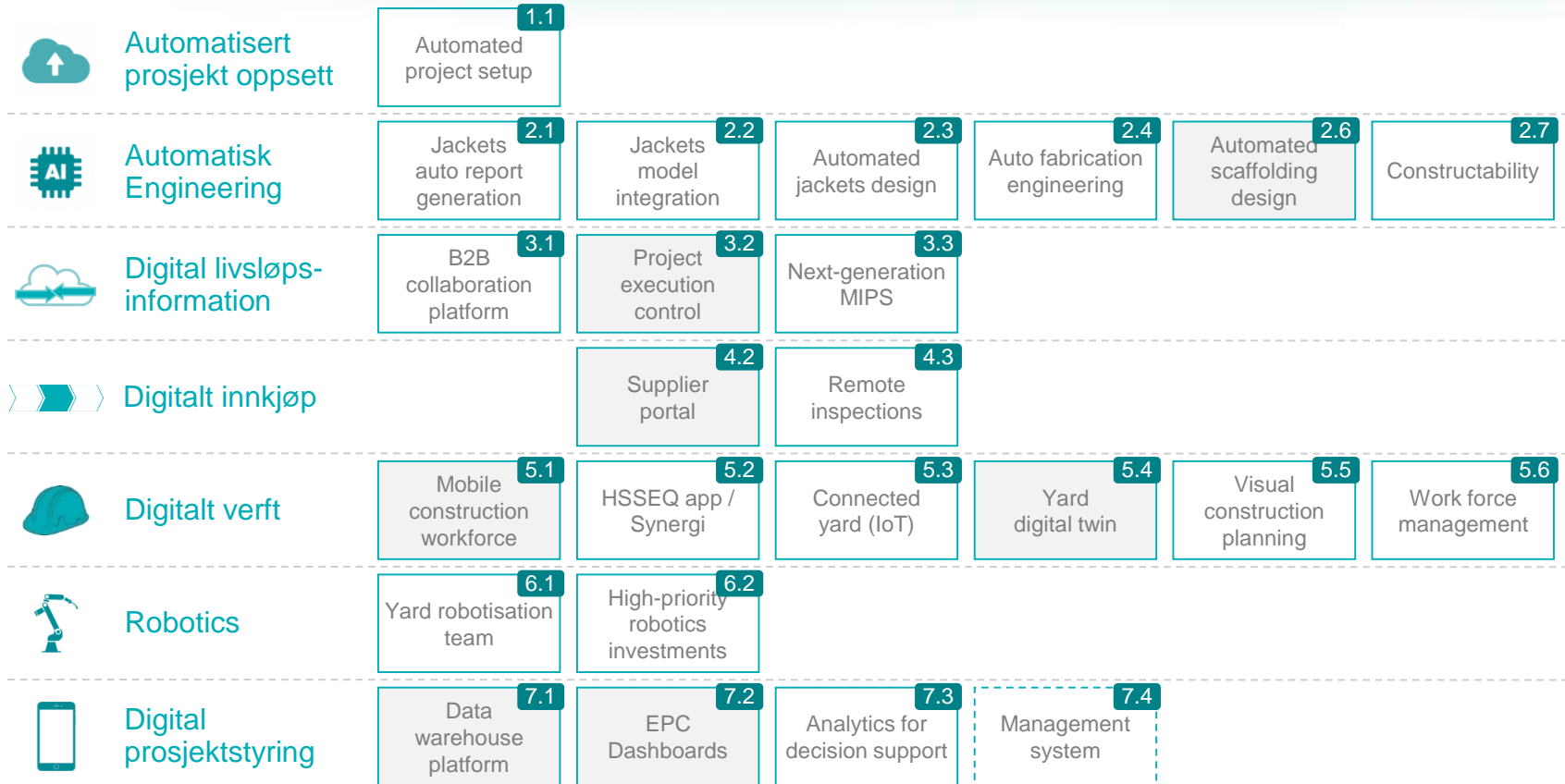
# Marked - diversifisering

Process & Structures	FPSOs	Renewables
 <p>OIL AND GAS PLATFORM TOPSIDES</p>  <p>OIL AND GAS PLATFORM STEEL SUBSTRUCTURES</p>  <p>SoS UNMANNED WELLHEAD PLATFORMS</p>  <p>CONCRETE SUBSTRUCTURES FOR OIL AND GAS PLATFORMS</p>	 <p>FLOATING PRODUCTION STORAGE AND OFFLOADING VESSELS</p>	 <p>OFFSHORE WIND TURBINE PLATFORMS</p>  <p>OFFSHORE WIND CONVERTER PLATFORMS</p>
 <p>MARINE OPERATIONS</p>  <p>ONSHORE PROCESS PLANTS</p>  <p>UPGRADING &amp; MODIFICATION</p>  <p>DECOMMISSIONING &amp; RE-USE / RECYCLING</p>		 <p>OFFSHORE FISH FARM FACILITIES</p>  <p>CARBON CAPTURE FACILITIES</p>

# Konkurranseskraft gjennom fleksibilitet



# Digitaliseringsvegkart



# Digitalt verft

## Mobile enheter i produksjon

Mobile enheter for rapportering, motta informasjon and varsle om nye arbeidsoppgåver

## Tilkobla verft

Sensorer på alt material og utstyr kopla opp via "skya"

## Digital tvilling

3D modell av verftet basert på nåtidsinformasjon fra sensorer og infrastruktur

## Visuell planlegging av produksjonen

Integrert 3D model, byggemetode og plan

## Ressursstyring

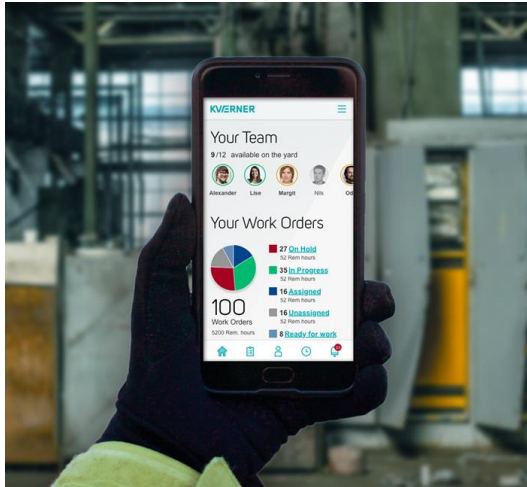
System som simulerer, planlegger og allokerer ressurser mellom prosjektene

## Produksjonsanalyser

Avanserte analyser og oversikter (dashboard) med nåtidsinformasjon og historiske data

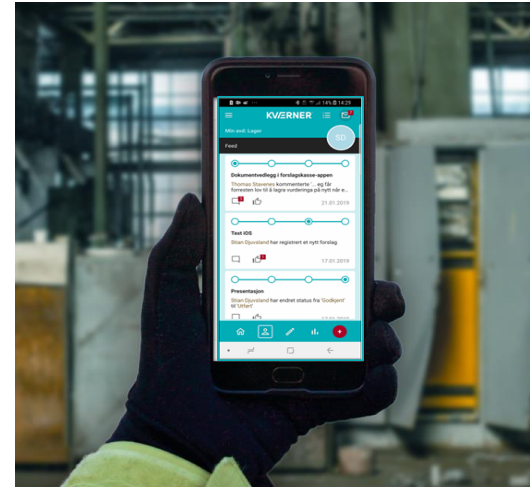
# Digitale løysingar

## Webuilt



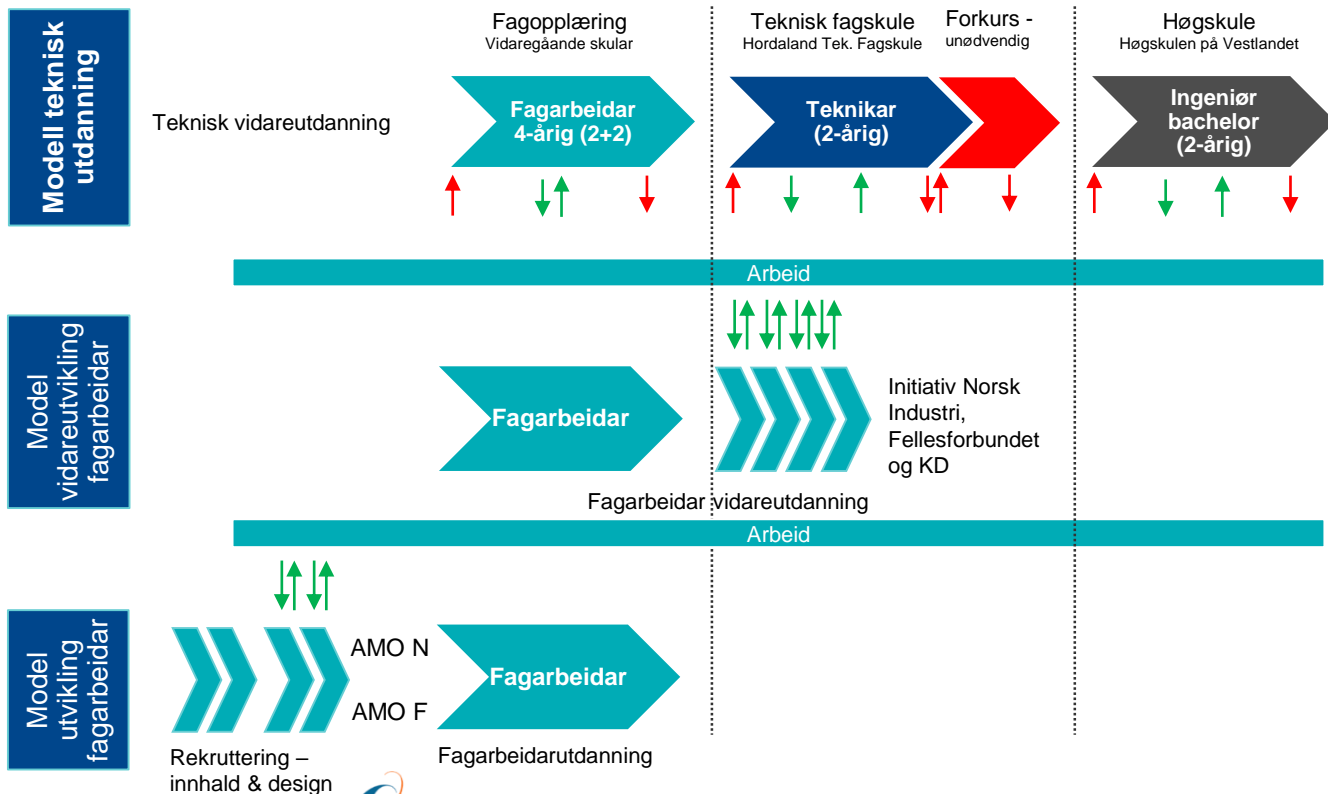
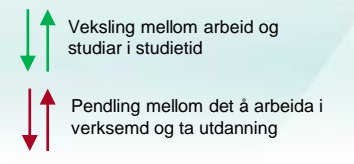
- Mobil applikasjon
- For formenn og operatørar

## Forslagskassa



- Mobil applikasjon
- For alt personell

# Teknisk utdanningssystem i Sunnhordland



# Behov for kompetanse

Behov for  
kombinasjon av  
kompetansar

Ny  
organisatorisk  
fleksibilitet

Sammensatte jobber, ny teknologi og nye organisasjonsformer

## Praktisk – teoretisk kompetanse

### Fagarbeidar 4-årig (2+2)

- automatikar
- elektrikar
- industrimekanikar,
- industrirørleggar,
- isolatør,
- kranførar,
- logistikkarbeidar
- overflatebehandlar,
- platearbeidar,
- stillasbyggjar
- sveisar,

### Teknikar (2-årig)

- maskin
  - maskin m ISO
  - automasjon
  - elektro
- (Stord modellen)

Andre relevante liner

### Ingeniør bachelor (2-årig)

- maskin
- automasjon
- Elektro

(Stord modellen)

Andre relevante liner

### Andre fagområde

- HMS
- HR
- Økonomi

### Nye kompetansar

- Spillutviklar
- Kunstig intelligens





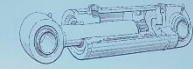
# Fagopplæring på Kværner Stord



# Fagskulen i Hordaland studiestad Stord



# Ingeniørutdanning på HVL (Stord modellen)



- Sylinder 2 (S2) eksempel fra oppgave
- Ved 150 Barg gir stempel 27973N skyvekraft
- Trekkkraft på 20976N

$$\text{Arealestet side: } \frac{D}{4} \cdot \pi \cdot L^2 = \frac{D}{4} \cdot \pi \cdot 1.5^2 = 1.962 \text{ m}^2$$

$$\text{Arealestet minusside: } \frac{D}{4} \cdot \pi \cdot L^2 = \frac{D}{4} \cdot \pi \cdot 1.5^2 = 1.962 \text{ m}^2$$

$$\text{Hvis } F = \frac{P}{A} \cdot A = \frac{27973 \text{ N}}{1.962 \text{ m}^2} \cdot 1.962 \text{ m}^2 = 27973 \text{ N}$$

$$\text{Hvis } F = \frac{P}{A} \cdot A = \frac{20976 \text{ N}}{1.962 \text{ m}^2} \cdot 1.962 \text{ m}^2 = 20976 \text{ N}$$

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# Industrifagskulen (modulbasert fagskule)



STYRK KOMPETANSEN DIN!

Viktig informasjonsmøte om  
**Nye kompetansetiltak  
for Kværner-tilsette**

**Tid:** Måndag 19. august, kl. 14:15-14:45

**Stad:** Plateverkstad 3, K-plan

**Innlegg ved** Steinar Røgenes, Amram Hadida og Trond Haga.

Det vert ikkje fritak for PPE i samband med informasjonsmøtet.



# Kværner satsar på Stord Johan Castberg med Storen og kaiutvidelse



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