



think simulation

getting the chemistry right


Why make OLI your strategy

For upstream applications

January 2019

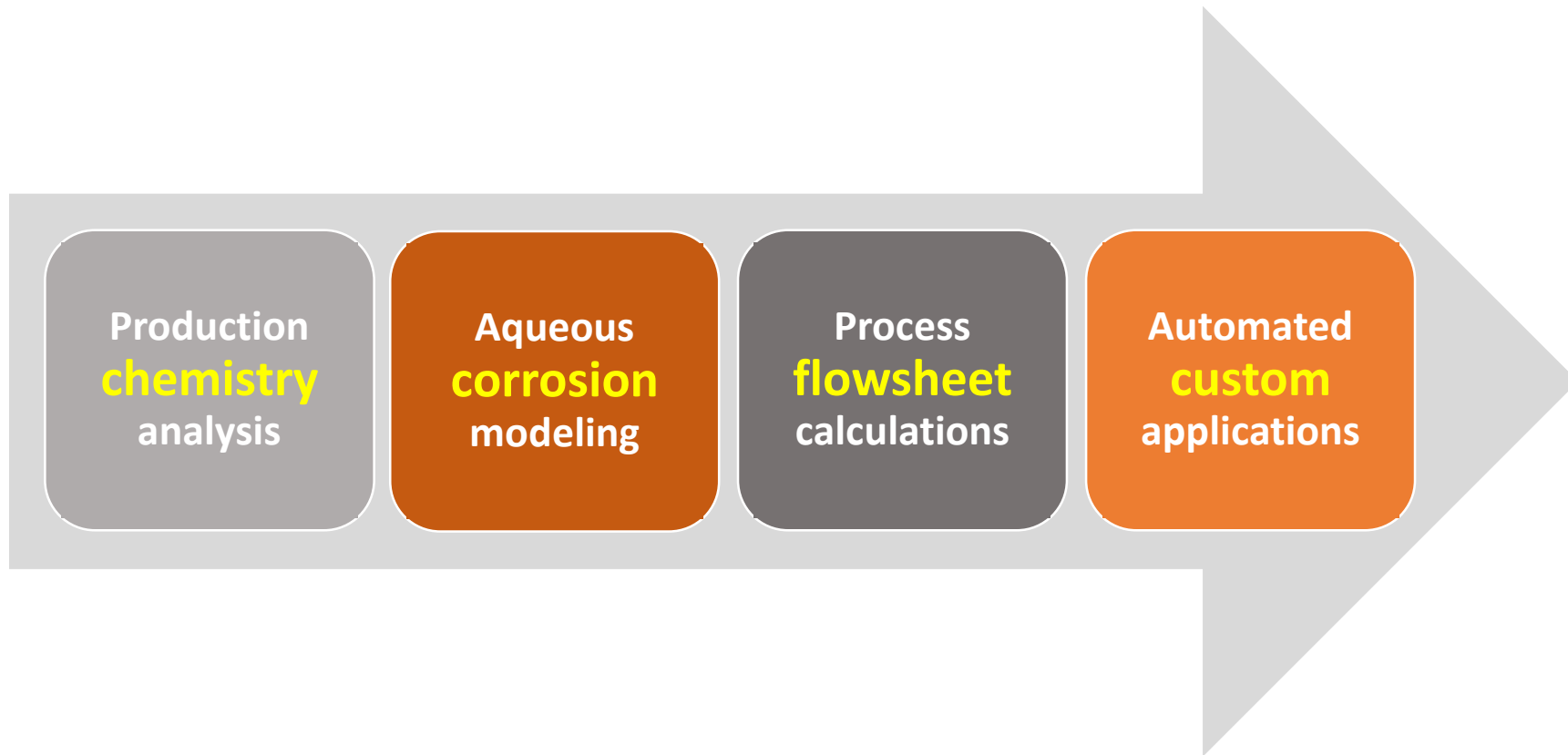
OLI Systems: Global thought leaders in water chemistry

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- ✓ Simulation software for scaling & corrosion
 - ✓ 47 years specializing in electrolyte science
 - ✓ Simulation for all areas of oil & gas
 - ✓ Used by the majority of top oil & gas companies
-

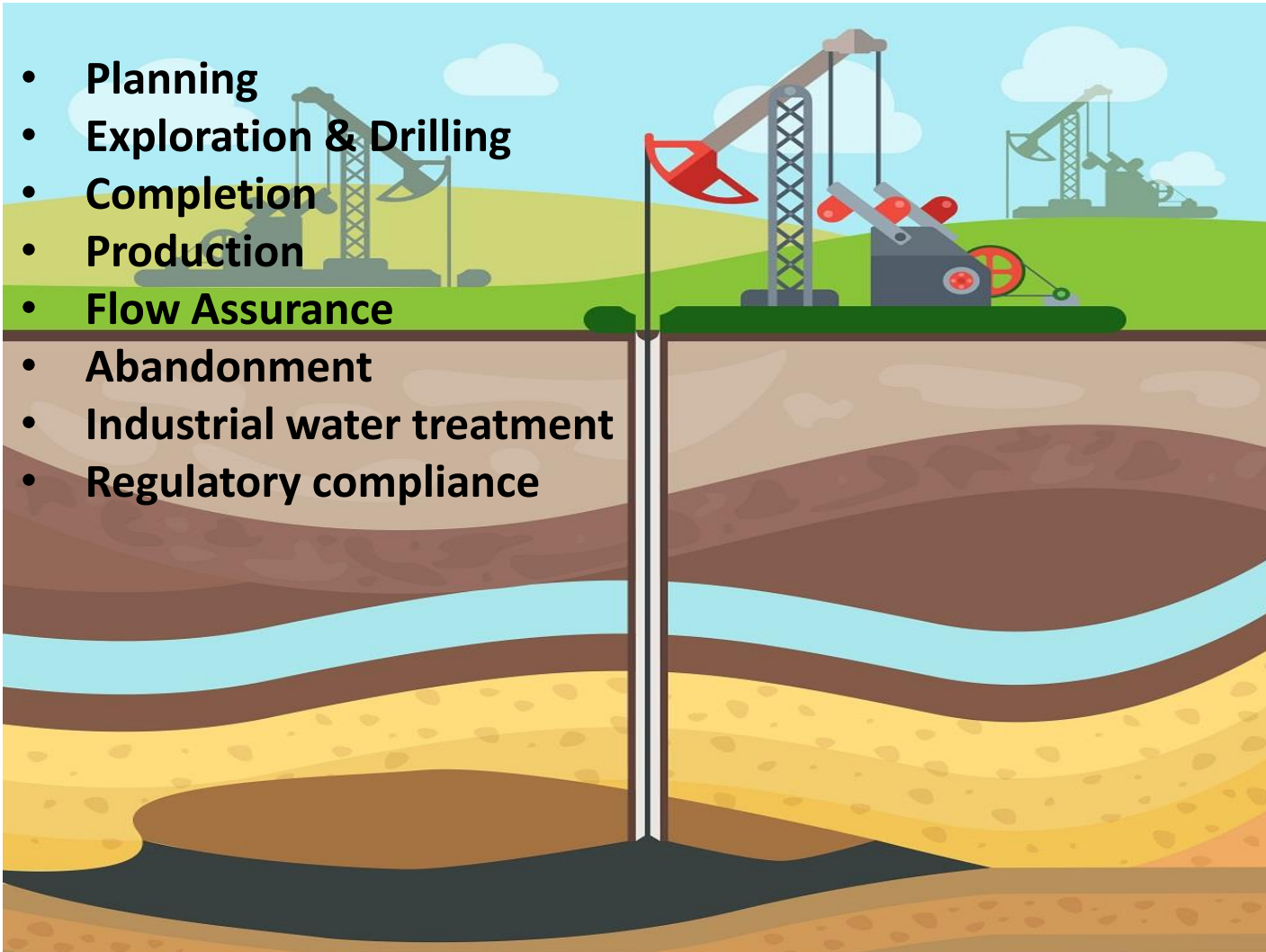


Offshore worker gazing at a drilling platform in the China Sea

OLI technology brings competitive edge



Focusing on upstream oil & gas

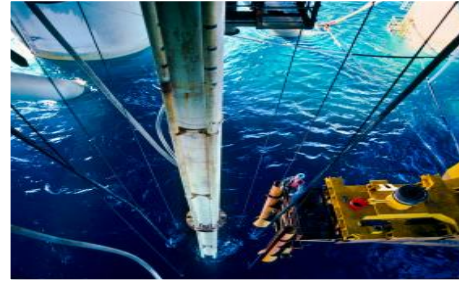


Simulations

- Mineral scale prediction
- Well profile scaling scenarios
- Reservoir mixing
- Injection water compatibility
- Gas lift
- Facilities modeling
- MEG, MeOH regeneration
- Water treatment processes
- Discharge limits
- Screening alloys
- Design of experiments for corrosion testing using autoclaves

MSE SRK specially designed for upstream

Extreme reservoir conditions require special methods



The power of MSE with the sturdiness of SRK

From 8 standard scales: carbonates sulfates halites

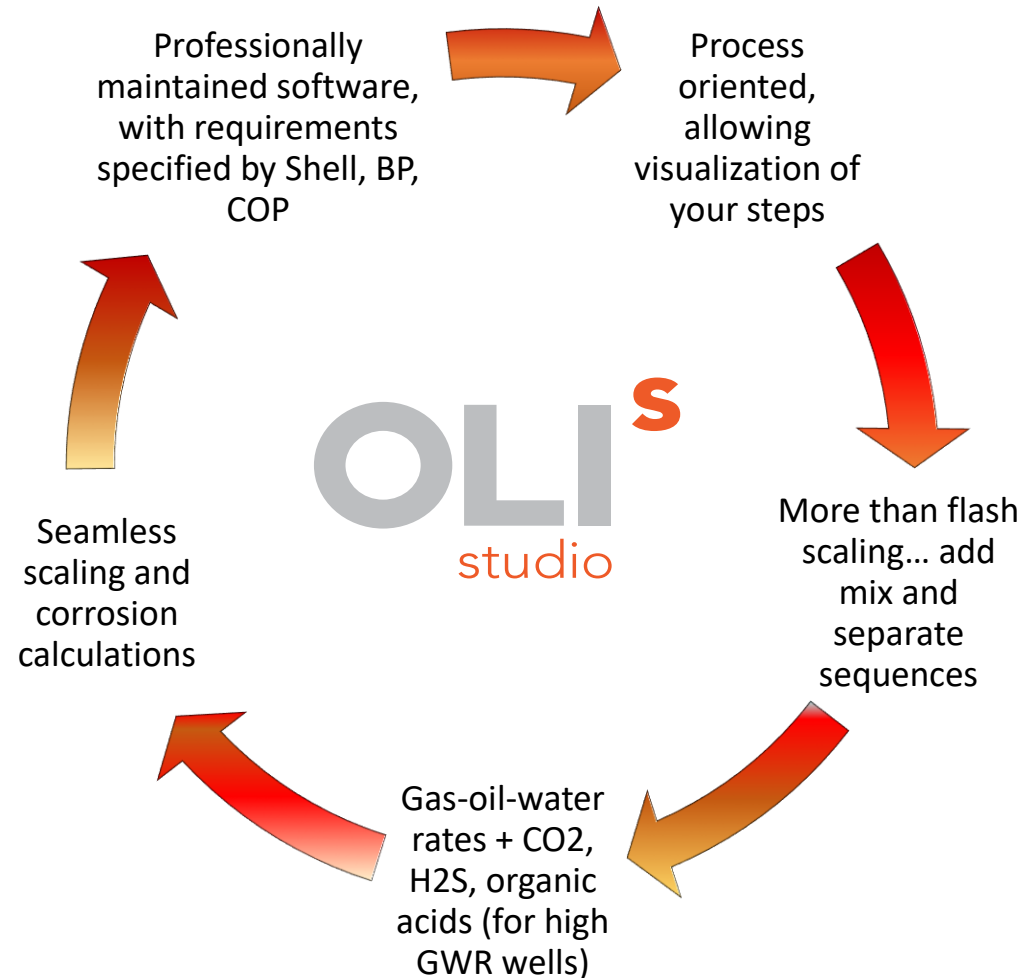
To the entire range of OLI chemistry



Use MSE-SRK in contour plots, all of ScaleChem options

...and in OLI Flowsheet: ESP too!

Why OLI Studio for upstream scaling / corrosion



Upstream corrosion simulation benefits

Understand your corrosion environment

Gain insights

- Corrosion mechanisms are well studied for CO₂ and H₂S corrosion

Screen effects

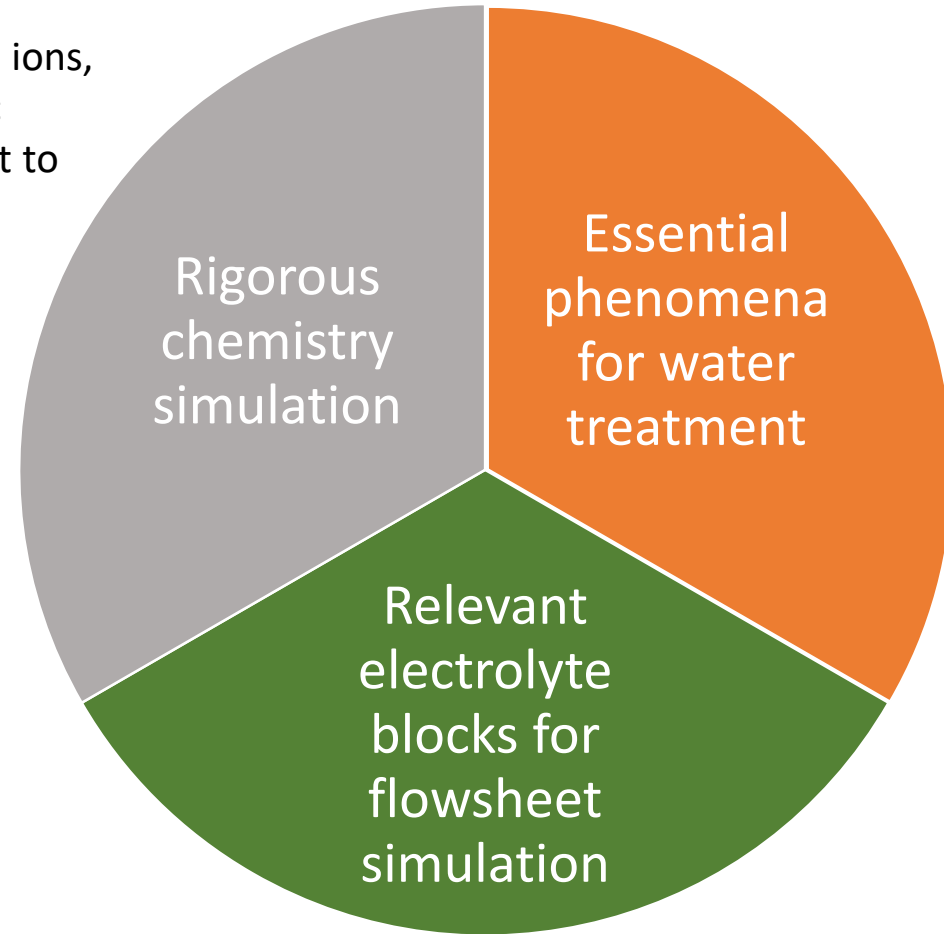
- Switch between alloys that include many Corrosion Resistant Alloys (CRAs) used today, as well as traditional carbon steel and other upstream pipe materials

Increase confidence

- Save lab time by calculating autoclave charging conditions
- Reduce risk of catastrophic failures

Upstream water treatment simulation needs

Modeling the interactions of common ions, pollutants and impurities, and organic material with water / and with respect to each other



Taking surface reactions and kinetics / mass transfer into account

The “usual” flowsheet operations as well as specialized units, i.e., membranes, reaction kinetics

Service levels available

Combining training, support, consulting, data validation bundles



BRONZE

BASIC

Installation,
Configuration,
Break-fix and Bugs

Free with license
purchase



SILVER

STANDARD

For building
confidence
in your electrolyte
simulation work



GOLD

PREMIUM

When you want
and need
mission-critical
success
in your work



PLATINUM

SUPERIOR

OLI onsite
training and
consulting to
ensure your
success

Pre-paid Service Levels

New V9.6 advances in the OLI platform

Thermodynamics

Thermodynamic breakthrough for supercritical conditions in oil and gas production

MSE-SRK

Chemistry

Break-through chemistries for multiple industries

ZnS, PbS, CaSO₄

**Mercaptans
Arsenic/Struvite**

**Potash
lithium**

Corrosion

New corrosion resistant alloys for oil & gas

**Alloys 28, 29,
2535 and 2507**

New units

For industrial water treatment (using ESP)

Reverse osmosis

Pump

Incinerator

Getting started with OLI access today



Ask us for a free, online consultation for your upstream challenges















Evaluation copies are available, or try our 4-month starter package to ensure your success



Several software leasing options are available with prepaid, annual or quarterly payments

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Mike Kochevar All Inquiries 	Sales & Success Leader	https://www.linkedin.com/in/mike-kochevar-pmp-7443258/		Mike.Kochevar@olisystems.com
Pat McKenzie Sales 	VP Sales & Marketing	https://www.linkedin.com/in/pat-mckenzie-b4241011/		Pat.mckenzie@olisystems.com
Dr. AJ Gerbino Client Success 	VP Client Success	https://www.linkedin.com/in/anthony-a-j-gerbino-49354a9/		AJ.Gerbino@olisystems.com
James W. Berthold Client Support 	VP Client Support	https://www.linkedin.com/in/jamesberthold/	https://twitter.com/JimBerthold_OLI	James.Berthold@olisystems.com
Dr. Andre Anderko 	Chief Technology Officer	https://www.linkedin.com/in/andre-anderko-a3518514b/	https://scholar.google.com/citations?user=auFtxeEAAA&hl=en	
Vineeth Ram 	Chief Revenue Officer	https://www.linkedin.com/in/vineeth-ram-96b6b54/	https://twitter.com/VineethRam	
Alice Parrish 	Sales & Success Operations Leader	https://www.linkedin.com/in/alice-parrish-711908158/		
Rasika Nimkar Client Success 	Client Success Consultant	https://www.linkedin.com/in/rasikanimkar/	https://twitter.com/Rasika_OLI	Rasika.Nimkar@olisystems.com
Dr. Diana Miller Client Support 	Technical Support Consultant	https://www.linkedin.com/in/diana-salgado/		Diana.Miller@olisystems.com
Dira Silvera Training Program & Academic Licenses 	Sales Operations Administrator	https://www.linkedin.com/in/dira-s-2a44062/		Dira.Silvera@olisystems.com
OLI Simulation Group	Support questions	https://www.linkedin.com/groups/12093538		

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Thanks for your attention!