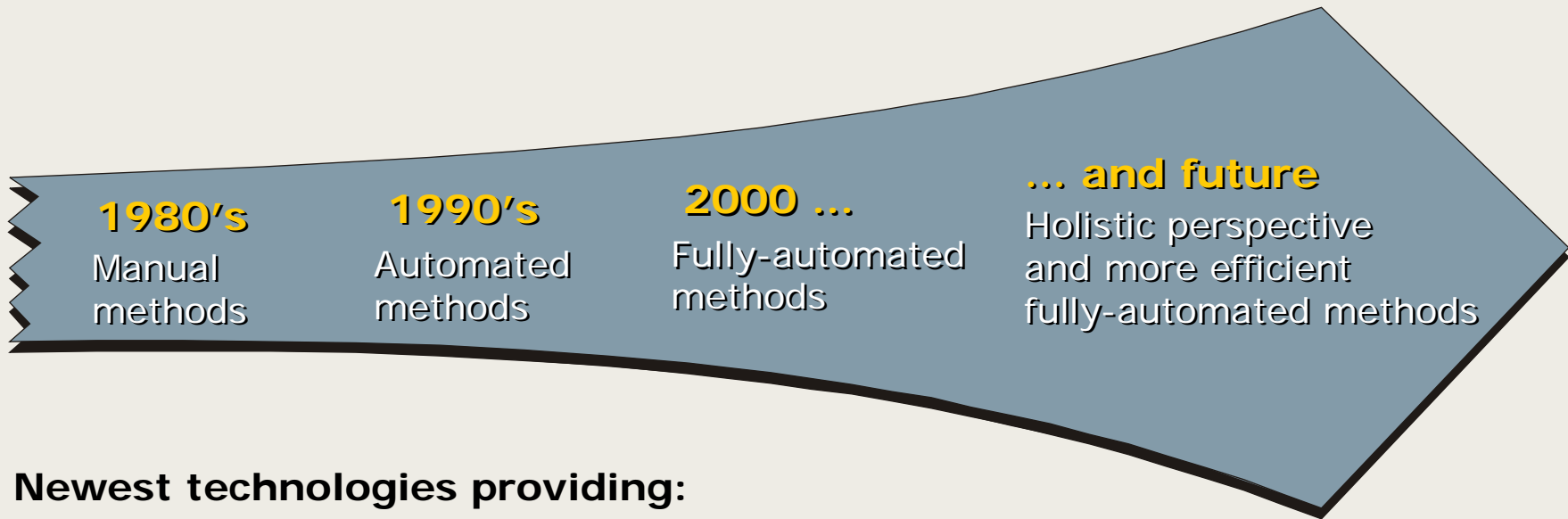


Introduction to automated tank cleaning and oil recovery



Historic development of tank cleaning methods



Newest technologies providing:

- Better cleaning result
- Faster cleaning process
- More efficient separation process
- Safer operations / non-entry
- Environmental protection
- Better cost-efficiency

Better plant operation

Problems

- Limited tank capacity
- Reduced through-put
- Limited tank flexibility

Solution: automated methods

- ✓ Releases dead stock
- ✓ Reduces tank down-time up to 80%
- ✓ Flexible change between oil products
- ✓ 99% recovery of hydrocarbons
- ✓ Minimum waste handling



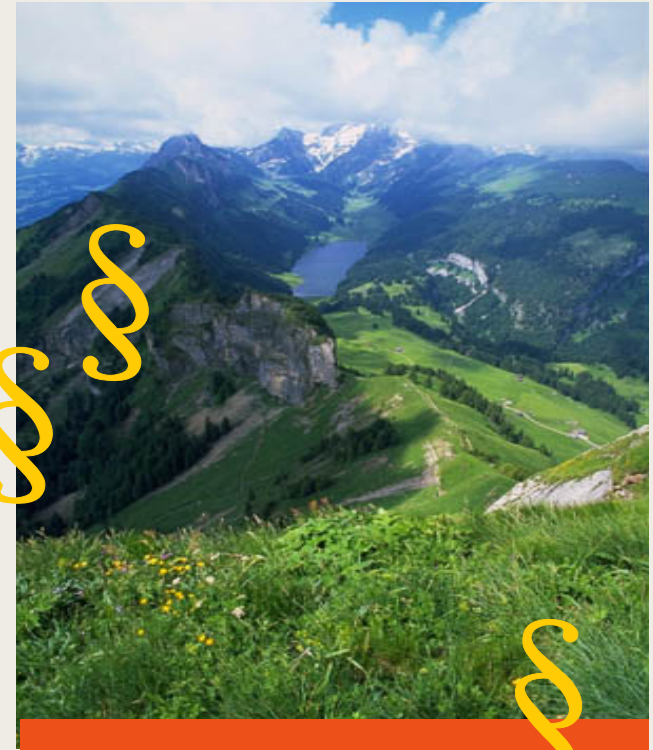
Environmental protection

Problems

- HC emissions to atmosphere
- Ground and water contamination

Solution: automated methods

- ✓ Closed loop cleaning system
- ✓ Minimum use of resources (water, energy etc.)
- ✓ Reduced HC emission to the air
- ✓ Simultaneous sludge separation minimising disposals
- ✓ Efficient recovery of hydrocarbons



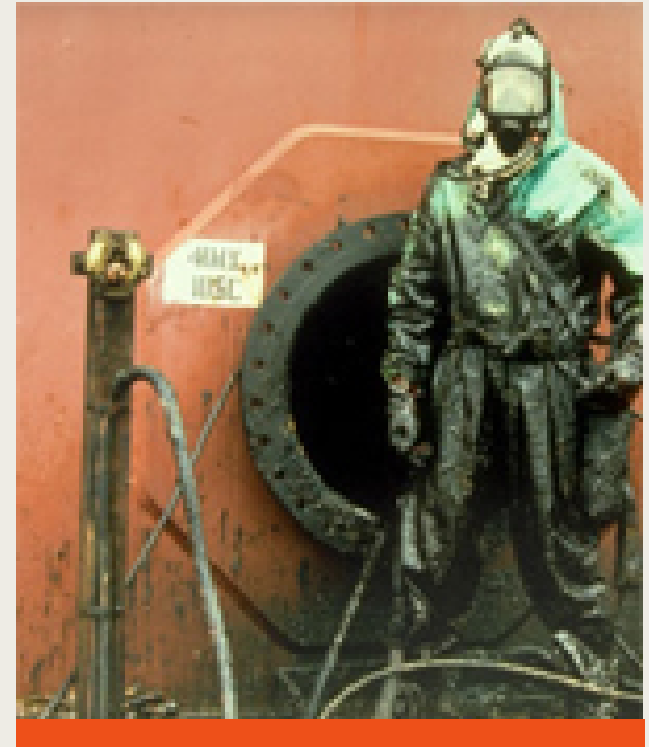
Increased focus on health & safety

Problems

- Explosion risks
- General plant safety and security
- Hazardous work environment

Solution: automated methods

- ✓ Non-man entry system
- ✓ No explosion risks
- ✓ No exposure of hazards
- ✓ Highly qualified staff
- ✓ Monitored process and progress report
- ✓ ISO 9001:2000



Better plant economy

Problems

- Tiresome waste handling
- Wasting valuable oil sludge
- Increased environmental legislation

Solution: automated methods

- ✓ Cleans all types of oil
- ✓ Simultaneous cleaning and separation process
- ✓ Separated oil directly to export pipeline – no quality loss
- ✓ Reduced down-time



Direct and Hidden Costs



Process and technology

| | | | | Process |
|-----------------------------------|-------------|---------------------|-----------------|----------------|
| Sludge minimisation | De-sludging | Tank cleaning | HC recovery | |
| BLABO® (Oreco) | | | | Technology |
| COWS (Taiho) | | | Fully automated | |
| GasTight (Hydrochem) | | | | |
| SuperMacs (3i) | | Phaser 600/450 (3i) | | |
| | | | | Semi-automated |
| Hydrodozers (Willacy) | | | | |
| P43 (OPEC) | | | | |
| Mixers | | | | Manual |
| Numerous manual service providers | | | | |

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