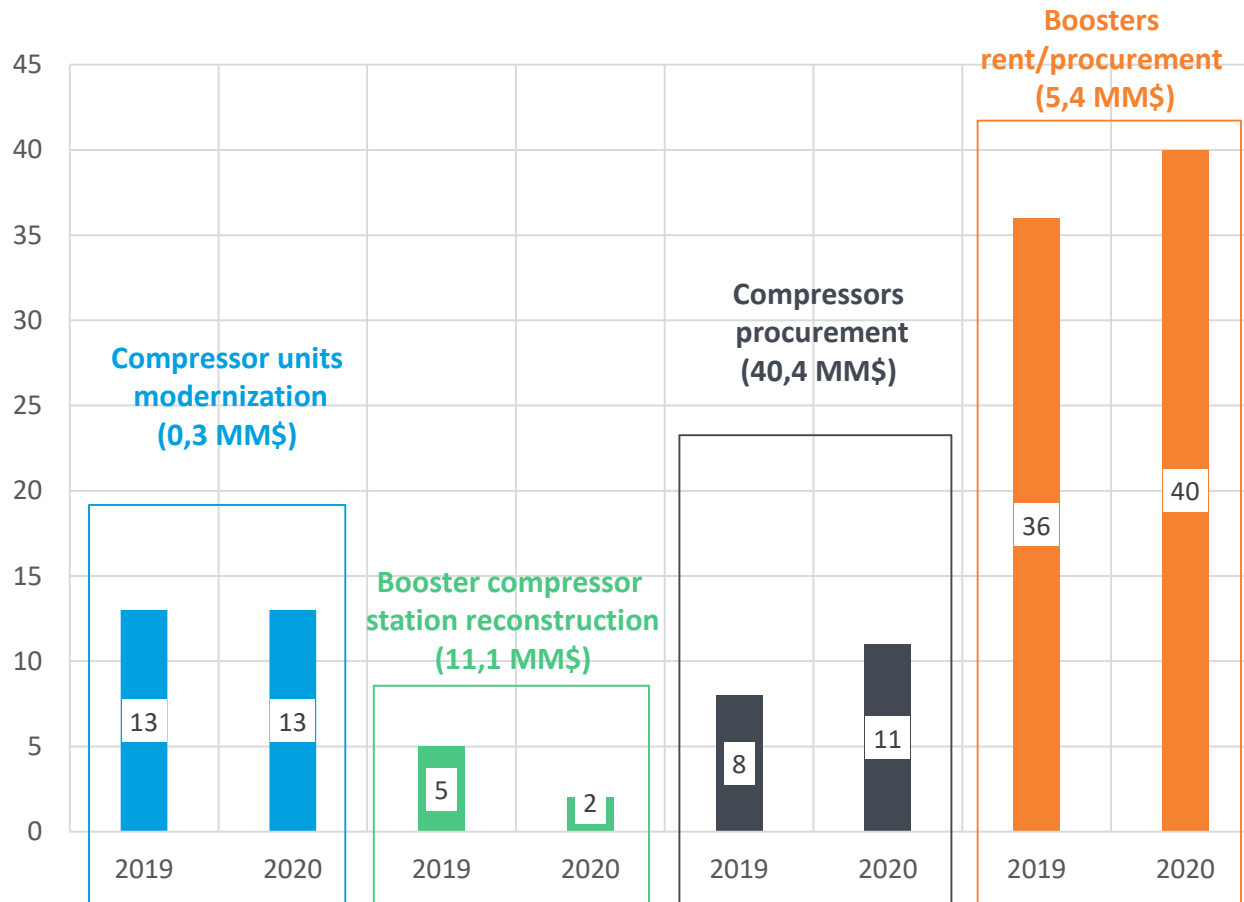




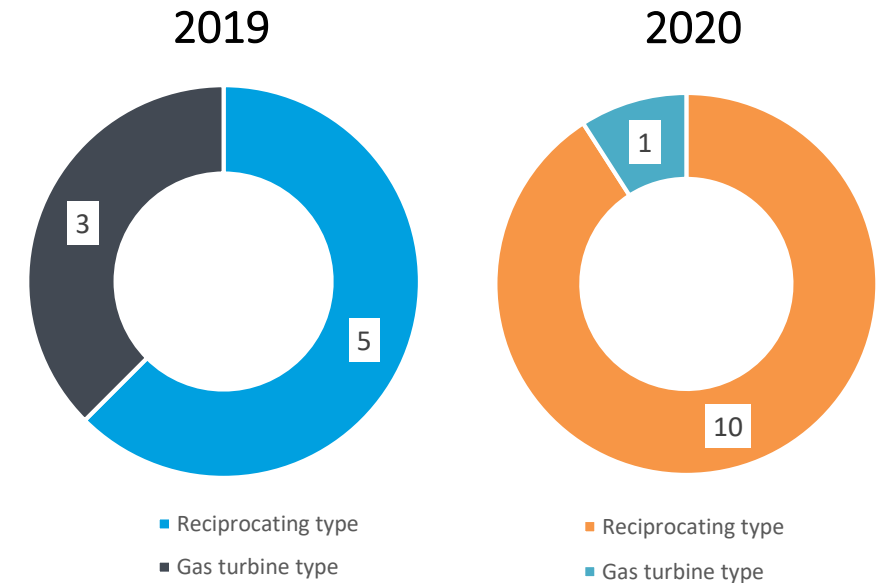
# UGV Technology Day

**Viktor Marushchenko**  
**UGV Midstream Department**  
**Baku, April 2019**

# Booster compressor stations and boosters procurement and rent for UGV needs (57,1 MM\$)



Compressors procurement plan (according to the engine type)



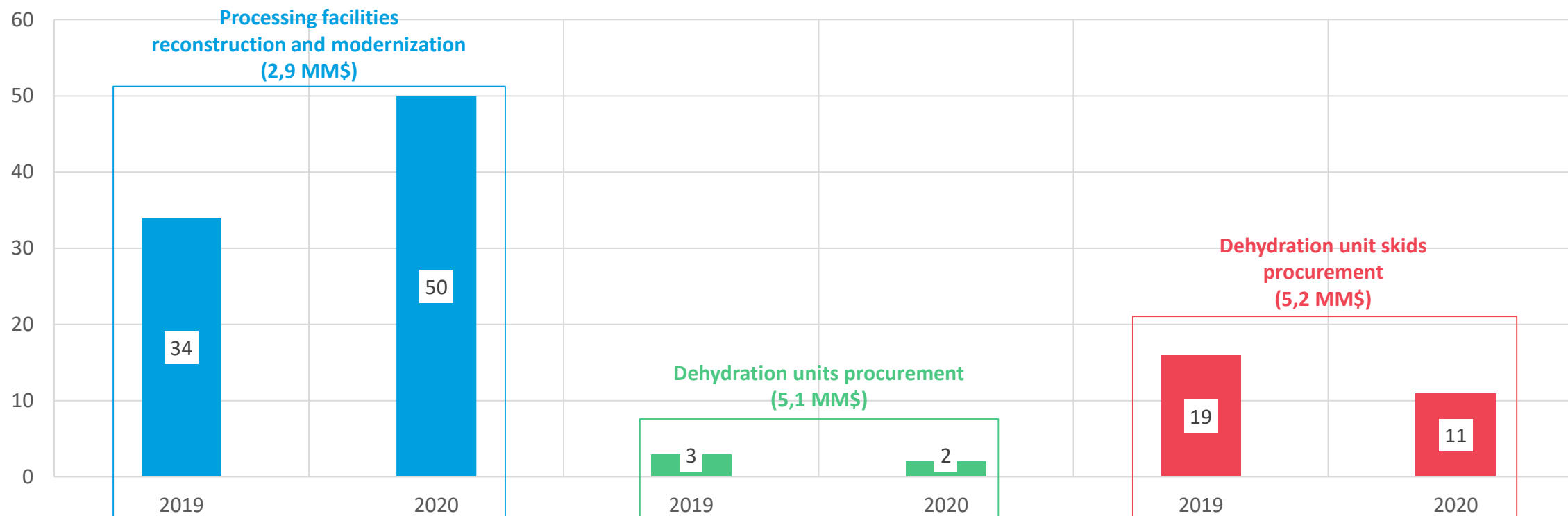
In 2019 UGV plans to modernize **13\*** compressors and their units, to reconstruct **5\*\*** compressors at booster compressor stations and to procure **8\*\*\*** compressors (5 reciprocating and 3 gas turbine type respectively) as well as to rent/procure boosters for 36 field processing facilities. In 2020 Company plans modernization of 13 compressors and their units, reconstruction of 2 compressors at BCS and procurement of 11 compressors (10-reciprocating, 1-gas turbine), rent with further procurement of boosters for 40 FPF.

\* ignition system modernization for compressor Ajax (gas production subdivision «LGV»);

\*\* reconstruction of CPF Tymofiyivka BCS-1 (HK-16 engine replacement) – 2 engines, reconstruction of Solokha BCS with installation of Mars 90 gas turbine compressors – 3 compressors;

\*\*\* Haiy BCS– 1 compressor, Vyshnevske field CPF – 2 compressors, Letnia BCS – 2 compressors, Mashivka BCS – 3 turbine type compressors.

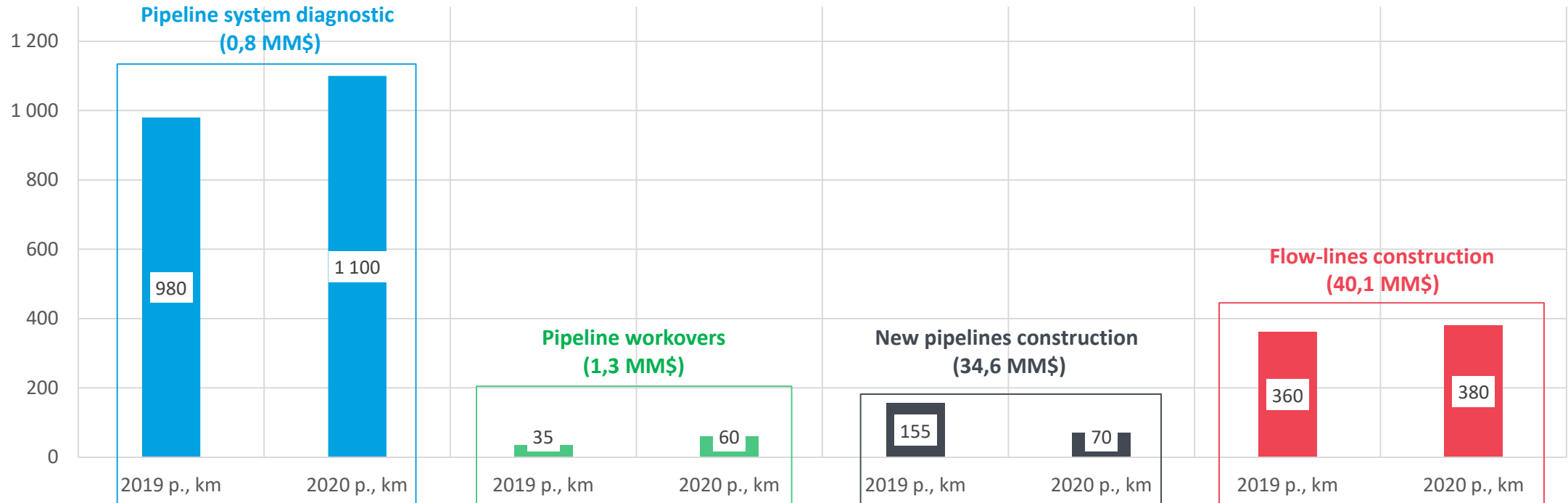
# Gathering, processing and transmission facilities, procurement plan for UGV needs (13,3 MM\$)



In 2019 Company plans to reconstruct and modernize **34** processing facilities (both types: FPF and CPF) by changing the existing separation, heat-exchanging, pumping equipment with modern ones. In order to meet gas quality regulatory requirements UGV is going to procure **3** dehydration units for processing facilities at Yevheniske, Vyshnevske and Letnianske fields as well as skid dehydration units for city gates (gas distribution stations). In 2020 Company reconstructs and modernizes **50** gathering and processing plants (replacement – reinstallation of existing separation and technological equipment) as well as procures **2** dehydration units for Peschepynske and Kolomaczke field and **19** skids for city gates.

Next types of processing equipment are planned to procure: dehydration units, skid external cooling equipment, separators and heat-exchangers, atmospheric and pressurized storage tanks (for hydrocarbons and chemicals), pumping equipment (for transmission and injection), odorization units, crude oil and condensate stabilization equipment, cogeneration units for replacement of direct heaters.

# Piping system construction, maintenance and servicing for UGV needs (76,7 MM\$)



2019

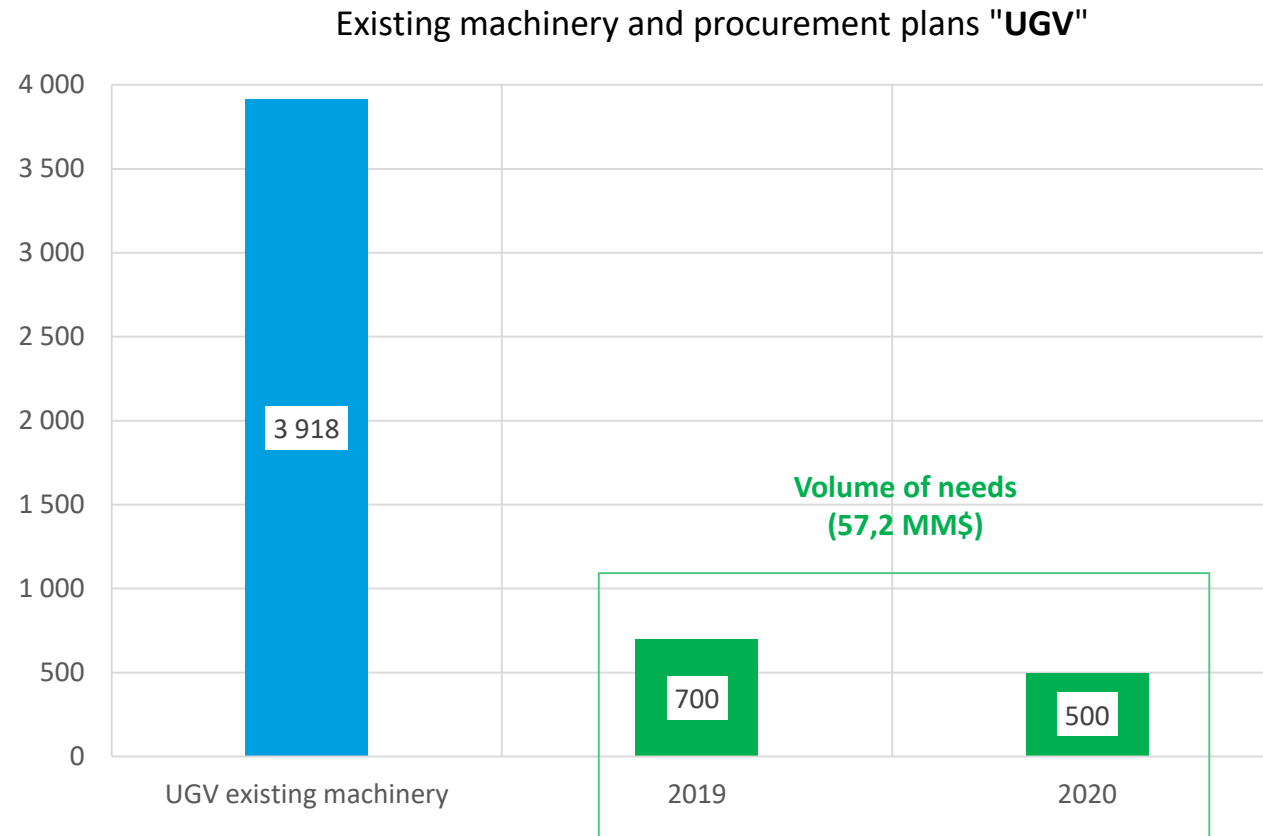
- 980 km of piping diagnostic
- 35 km of pipeline workovers
- 155 km of new pipelines construction
- 360 km of flow-lines construction



2020

- 1160 km of piping diagnostic
- 60 km of pipeline workovers
- 70 km of new pipelines construction
- 380 km of flow-lines construction

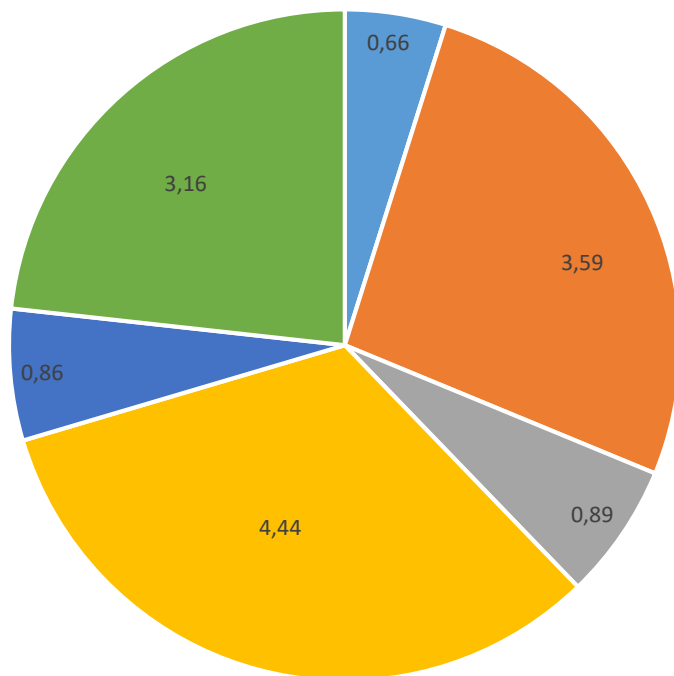
# Special machinery procurement needs (57,2 MM\$)



In 2019 UGV plans to procure 700 new machineries, in 2020 – 500 units such as: cranes, bulldozers, trails, graders, dumpers, excavators, increased passability shift cars, tractor trucks, vehicles for transportation of pipes, tank trucks, lift trucks, mobile repair cars, rigs, mobile anchor trucks, mobile nitrogen compressor trucks, mobile flow-lines and manifolds units, cement trucks, mixers, minibuses, steam-generators, etc.

## Metrology, automatization and control system (13,6 MM\$)

Metrology, control system and automatization needs of UGV for 2019 (13,6 MM\$)



- LGV division
- ShGV division
- Ukrburgas drilling division
- PGV division
- Gas and gas-condensate processing division
- Other branches

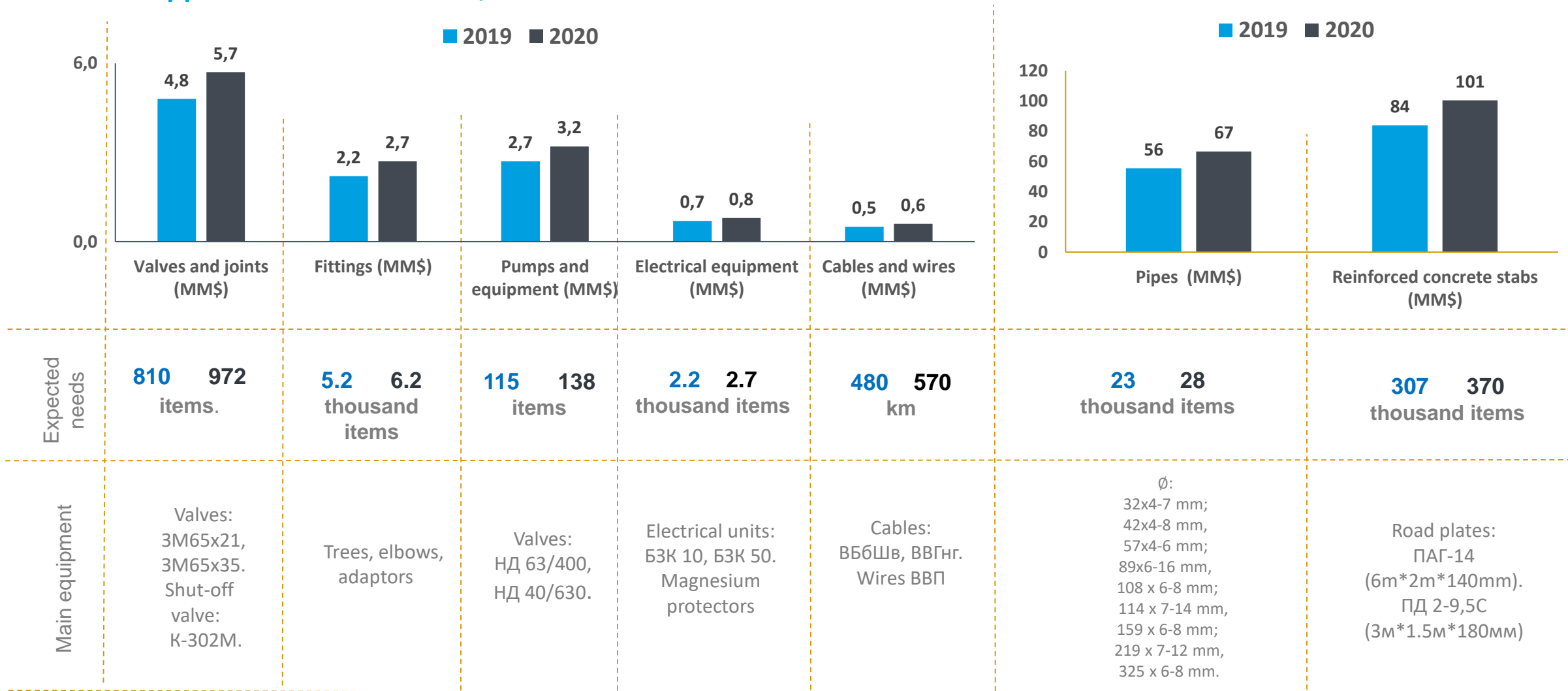
In 2019 – 2020 UGV plans to implement new control systems or modernize existing wear and tear equipment for control and metering systems within these projects:

- ❖ Implementation of automatize system of controlling production and processing in UGV;
- ❖ Modernization of 19 automatize control system of processes at FPF in LGV, PGV and ShGV production divisions;
- ❖ Renovation of control systems at 8 gathering and processing facilities;
- ❖ Reconstruction of 36 commercial metering system ;
- ❖ Reconstruction and renovation of 156 technological metering system ;
- ❖ Improvement of gas sampling sites ;
- ❖ RE-equipping of chemical labs.

# Construction: total needs

Planned volumes of procurement of well-head equipment, land sites, pipes, valves, joints and fittings for flow-lines, technological manifolds, trunk and branch lines

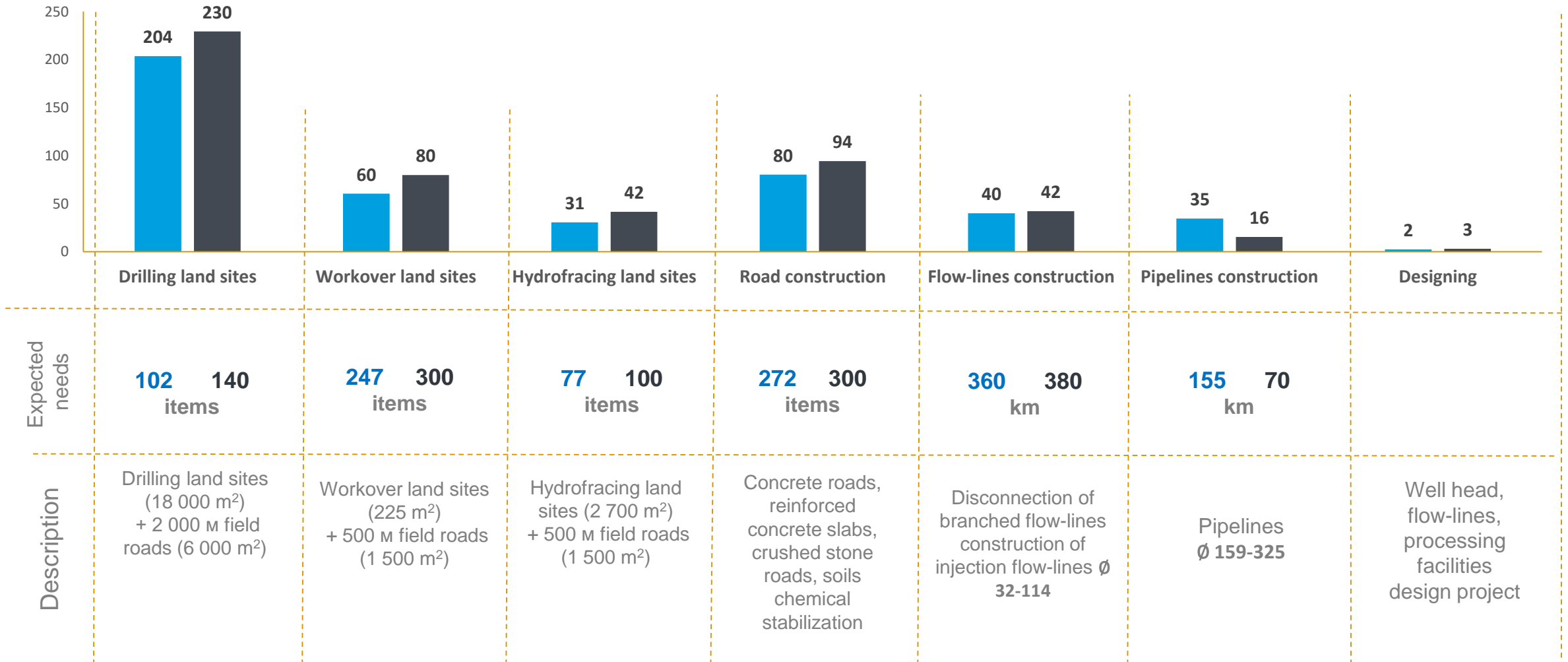
Approximate CAPEX ~ 148,0 MM\$



# Construction: total needs

Planned volumes of procurement of well-head equipment, land sites for drilling, hydrofracing, repairs and sidetracking, flow-lines construction

■ 2019 (MM\$) ■ 2020 (MM\$)





# UGV contacts for further information



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# Thank you!



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