

# LD2401 Q2 Report - Robotic Collaboration for Particulate Free SRF Assembly

## • Progress

- procured robot-arm, end-of-arm tool, vision system, pedestal
  - Universal Robots UR20 (20 kg load, 1750 mm reach, 5.5 N 0.2 Nm force/torque precision)
  - Robotiq Hand-E gripper (50 mm stroke, 0.2 mm resolution, 185 N grip force)
  - LMI Gocator 3520 (3D vision, 353 mm clearance + measurement range, 175 mm field of view)
  - Vention custom designed parts kit for UR20
- assembled robot-arm onto pedestal

## • Next Steps

- manufacturing mounting bracket for camera + gripper
- studying manuals, learn to operate the robot and camera

## • Issues

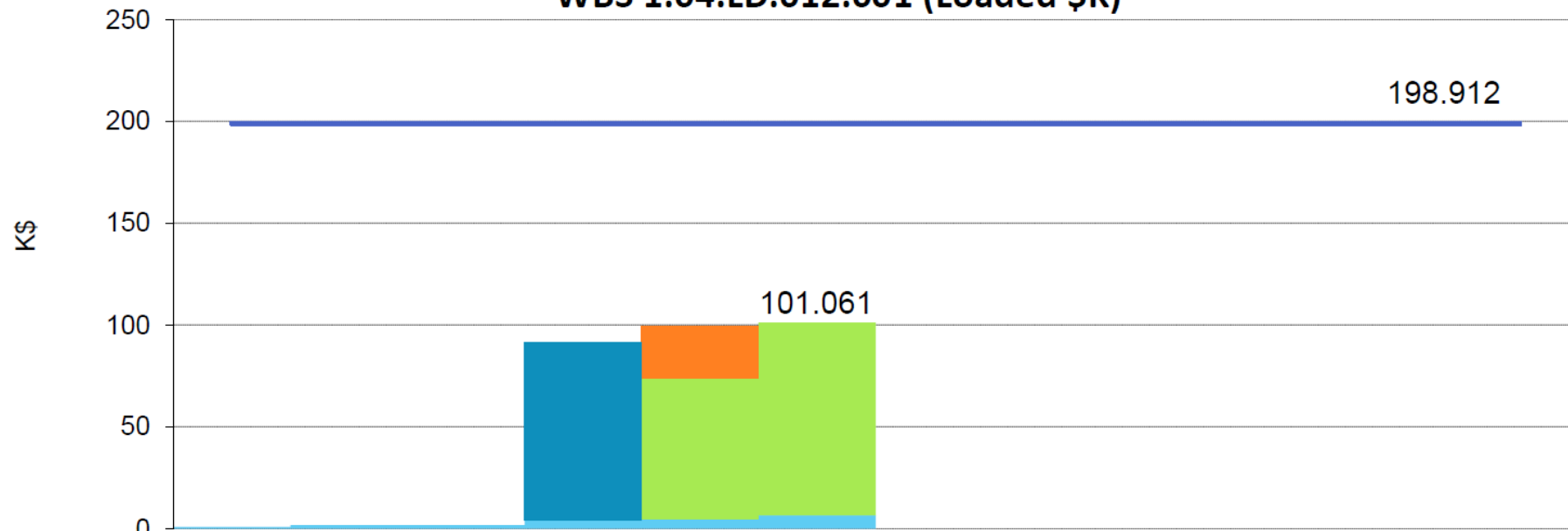
- ~1 month delay with respect to timeline in proposal



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- Financial Report

**Robotic Collaboration for Particle Free SRF Assembly**  
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**WBS 1.04.LD.012.001 (Loaded \$K)**



	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24
YTD Spending	0.810	1.673	1.673	91.298	99.079	101.061	0.000	0.000	0.000	0.000	0.000	0.000
Pending	0.000	0.000	0.000	87.087	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Open Obligations	0.000	0.000	0.000	0.000	25.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Expenses	0.000	0.000	0.000	0.000	69.487	94.585	0.000	0.000	0.000	0.000	0.000	0.000
Labor	0.810	1.673	1.673	4.210	4.500	6.476	0.000	0.000	0.000	0.000	0.000	0.000
Funding	198.912	198.912	198.912	198.912	198.912	198.912	198.912	198.912	198.912	198.912	198.912	198.912