Velocity: wheel cmd vs IMU integration v cmd = R * cmd vx (m/s)2.5 v imu = $\int a \times dt (m/s) - a \times filtered$ v imu = $\int a \times dt (m/s) - a \times unbiased$ 2.0 1.5 velocity (m/s) 1.0 0.5 0.0 -0.5-1.020 60 100 40 80 120 time (s)