WHAT SETS THE TIMESCALE OF CELL DIVISION? phosphate transport ≈5000 sec peptidoglycan peptidoglycan assembly sulfate ≈300 channels transport precursor carbon ≈100 transpeptidases transport ≈1000 channels synthesis ATP synthesis ≈5000 channels → → → = ≈3000 synthases lipid synthesis ≈4000 dehydratases tRNA charging ≈1000 ligases proton-motive force ≈2500 electron transport **RNA** synthesis dNTP synthesis **DNA** replication chains translation ≈5000 polymerases ≈50 polymerases ≈300 reductases ≈10,000 ribosomes 900-PoPs