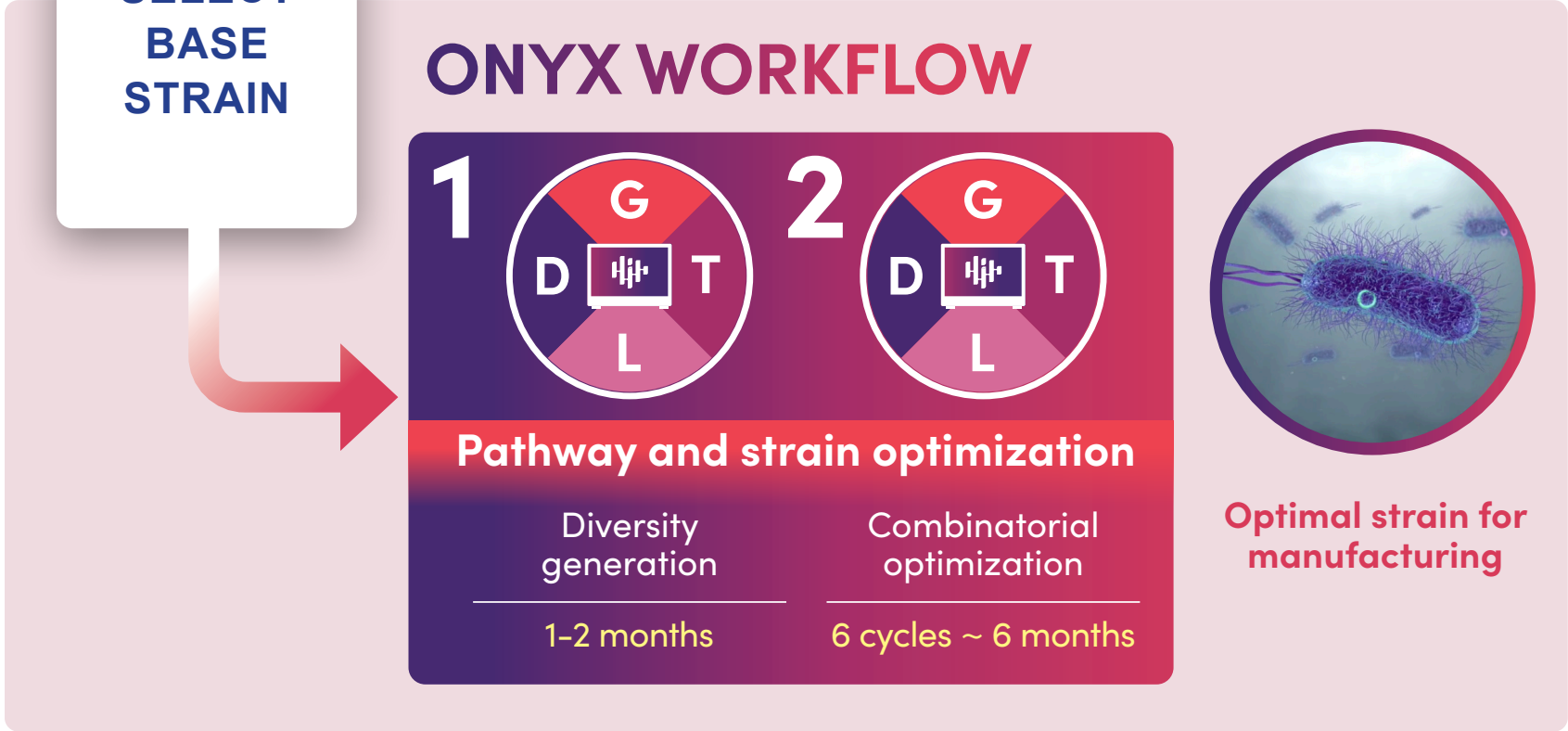
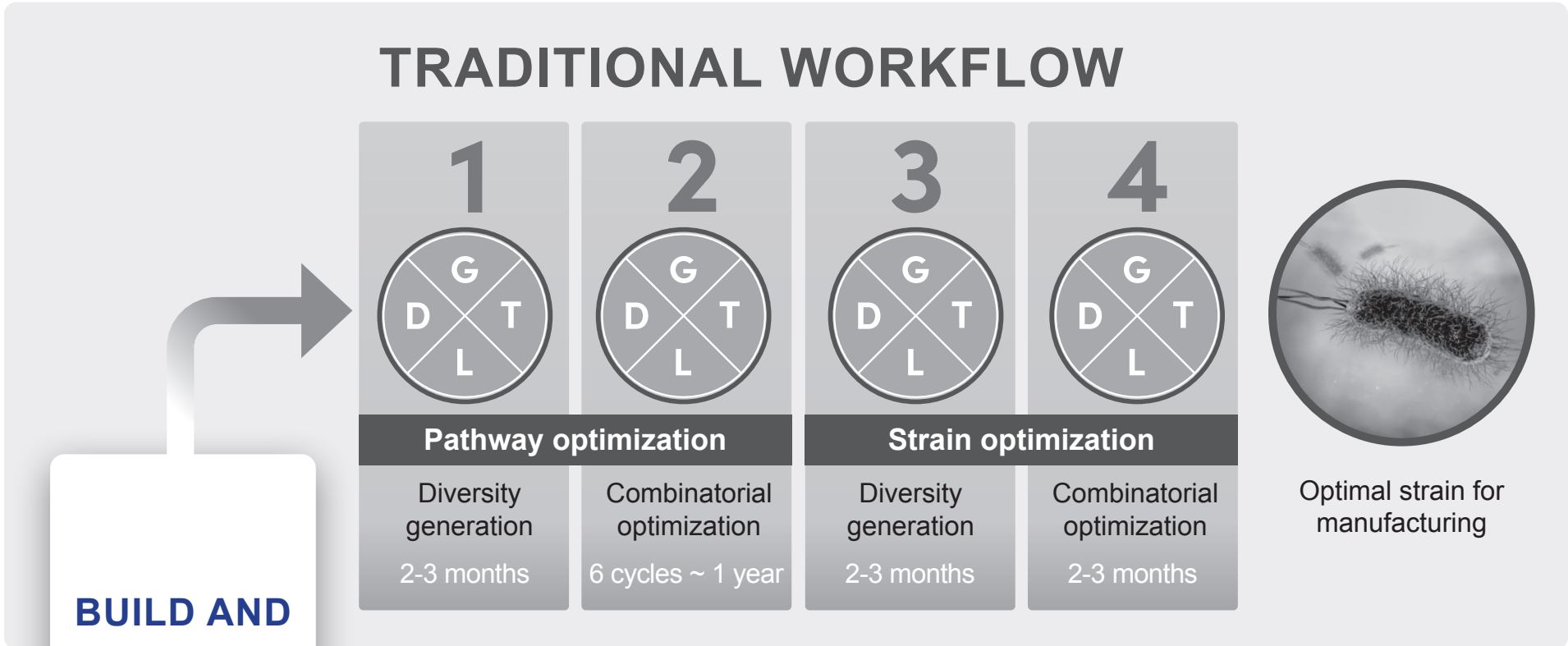


Outrageously fast and efficient strain engineering for protein and specialty chemical production with the Onyx[®] platform.



	TRADITIONAL METHOD	ONYX PLATFORM
Optimized strain quality	Lower	Higher
# of projects in parallel	1	Multiple
Expertise required	1 Bio-Informatician 1 Senior Scientist 1 Research Associate	1 Scientist
Average project duration	Up to 18-21 months	Up to 8-10 months
FTE hour per DGTL cycle	Up to 430*	Up to 43*
Royalty	Royalty may attach depending on use	MAD7 Royalty free

*This example compares building and testing 1,000 edits using traditional in-house techniques or the Onyx Platform and includes the following steps: library design strategy, edit sequence design (gRNA and homology arm), ordering and receiving the oligos or kits, constructing the plasmid, performing plasmid library QC, engineering the cell library, and genotyping the cell library. Actual results may vary depending on the actual experiment performed.