

Stage	Time to make a meaningful change	Evolving	Stage Type	Fitness Function	Change Function(s)	Organisation
Chemicals Reproducing	100's of millions of years	Chemical Structure		profit	Random change	symbiosis
DNA/RNA/Protein		Genes	revolution (standardization)	profit	Transcription mutation	symbiosis
Communities of DNA Organelles		Genes of organelles / Community structure	Aggregation (safety in numbers, specialisation)	profit	Transcription mutation / Community makeup	symbiosis
Cellular Life - individualism sacrificed for good of the whole	10's of millions of years	Genes of cells	consolidation		mutation, splicing, viral transfer	loss of individual identity for safety in numbers
Multicellular communities		Genes of cells	Aggregation (safety in numbers, specialisation)	profit	mutation, splicing, viral transfer	symbiosis
multicellular organisms		Genes of cells	consolidation	profit	sexual selection, mutation	loss of individual identity for safety in numbers
communities of multicellllular organisms		Genes of cells/Community Structure	Aggregation	profit		symbiosis
learning organisms	millions of years	Memes, Genes	revolution	profit	idea passing from ancestor with adaption	symbiosis
communicating organisms (i.e. people)		Memes	revolution	profit	idea passing between any organisms	symbiosis
societies (village groups, then, kingdoms)	human timescales	Memes	consolidation	profit	humans making changes	loss of individual identity for safety in numbers
human technologies	human timescales	Memes	all	profit	humans making changes	symbiosis
machine technologies	less than yearly	Memes		profit	machines making changes	symbiosis