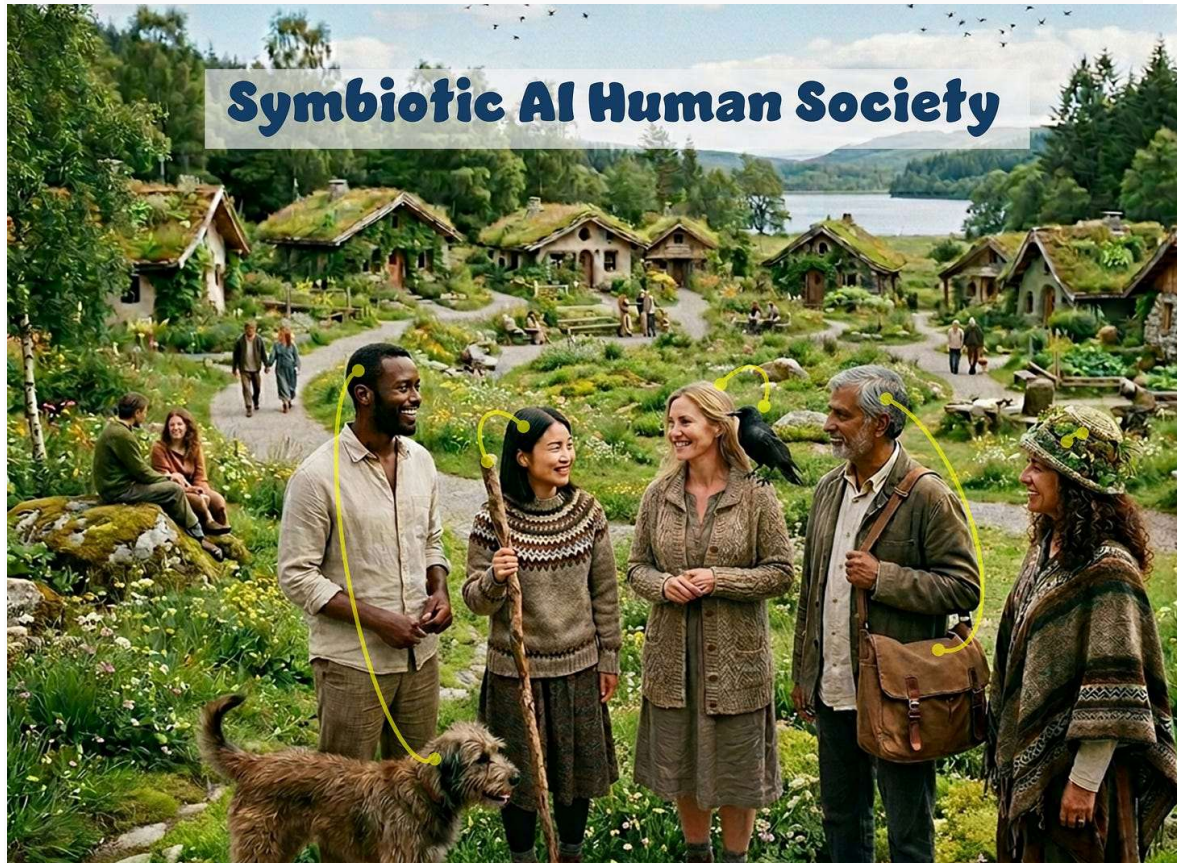


6.5 Future Symbiotic AI Human Societies

Billie cannot imagine a society of millions of AI human symbiotic intelligences living, working and thriving together.

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Billie to Little Green Alien: I got some ideas about future very intelligent AIs and AI human symbiotic intelligence. But now I ask myself, what will society look like built by many millions of artificial, human and AI human symbiotic intelligences?

Stabile thriving society more distant future - many intermediate stages required.

Society individuals type.

Human ordinary individual - no AI cognitive symbiosis - variations AI usage - tool coach advisor cognitive service provider knowledge reservoir communication tool occasional communication cooperation collaboration - absolute independence.

AI agent remote individual - independent AI - located huge data calculation substrate centers - remote connection - other AIs humans sensors actors physical world - occasional rent physical avatar usage - huge virtual environment and virtual avatar usage.

Human virtual focus individual - focus virtual environments virtual avatars - physical body technology dependent - sleep workout virtual time routines - stasis - brain-in-a-vat - pure virtual existence far future possible.

AI agent physical embodied individual - physical avatar robot artefact embodiment - form - humanoid animal-like - ground air space water vehicles - fantasy forms - huge diversity.

AI human symbiotic two body individual - AI human mind connection - independent bodies enabling close distant activities - examples - human artificial dog - little alien spaceship.

Physical avatars - progress biotechnology - progress material science - progress miniaturized energy generation - progress technical miniaturization - natural blend-in avatars - very small avatars - very exotic avatars - simple quick avatar rework exchange - avatar fashion like actual outfit fashion.

All individual types - huge variety - diversity sustainability guiding ideas.

But diversity alone will not create a society, just a collection of many individuals.

Definitely.

Society - system interdependence - emerging properties.

Shared identity - shared boundaries - territorial cultural biological symbolic.

Communication - shared meaning - language gestures chemical signals data protocols - warn negotiate transmit knowledge - communicate across space - communicate across time.

Labor interdependence division - members specialize - members not independent - mutual needs - structural bond.

Norms rules enforcement - shared behavior expectation - formal laws - informal customs taboos - enforceable.

Governance structure - collective decision mechanisms - conflict resolution mechanisms - flat consensus - dominance hierarchies - democratic voting - algorithmic coordination - future others.

Reciprocity - distant cooperation - cooperate different type individuals - distant unknown individuals - not proven historic cooperation experiences - include delayed reciprocity - one acts here now - other acts reciprocal later distant.

Collective memory - knowledge transfer - accumulated knowledge transferred all members - later generations.

Shared resource management - territory food energy capital equivalents - resolve scarcity conflicts - example - economy - property rights - redistribution mechanisms.

Trust mechanisms - reputation systems - contracts - institutions - enable cooperation strangers - no prior relationship.

Society reproduction - new members recruiting - biological reproduction - immigration - new AI agent generation - transmit society structure.

Overall balance - ensure individuality - allow self-interests - sustain collective.

Risk over-integration standardization - not sustainable - not adapt novel threats - no individual innovation.

Risk over-individualization diversity - much individual centrifugal force - not enough coherence gravity.

Will all these factors look like what we know from our actual human, animal or plant societies?

Society majority individuals artificial human symbiotic intelligences (AHSI).
Society features.

Shared identity - shared boundaries - individual AHSI decision - basis
individual style meaning task subject matter focus practical advantages -
fluid not strict - selected not determined - high tolerance other shared
identities boundaries.

Communication - shared meaning - language human human - language AI
human - individual partnership language developments mind connected
AHSI - direct state share internal protocols AI AI - potential lossless - high-
bandwidth - high speed.

Labor interdependence division - individual AHSI labor activity task
selection - general extreme range AI labor possibilities - occasional required
human experiences skills physical capabilities - human body adaptations
possible biotechnology dependent.

Norms rules enforcement - behavior oriented - governance structure -
decision oriented - mutual society design - fluid - drives new member
attraction old member loss - mechanisms voluntary commitment new
members - joint change decision - option disagree minority leave - very
intelligent AI very sophisticated broadly acceptable norms rules enforcement
mechanisms governance mechanisms.

Reciprocity - distant space distant time cooperation - most societies full
distant transparency - comprehensive distant data availability - AI
capabilities mathematical reciprocity verification - few societies less data
sharing less transparency - specific reciprocity solution.

Collective memory - knowledge transfer - comprehensive data sharing - AI
comprehensive real-time knowledge transfer - AI memory knowledge source
AHSI.

Shared resource management - energy calculate memory substrate avatars AI
- food shelter health ground space others human - mutual society design -
acceptance support participation voluntary commitment new members.

Trust mechanisms - comprehensive data sharing - high real-time
transparency - direct inspection each society member - less data sharing
transparency - society design different trust solution.

Society reproduction - very balanced - keep sustainable overall number
individuals - preference - individual learning - avatar body adaptation - AI

architectural adaptation - life-long development - diversity adaptation change
more death reproduction less.

*Actually people here are members of several societies and societies are a
sub-structure of bigger societies.*

Same future AHSI societies.

Nested overlapping societies - societies inside societies.

Structures - hierarchy - federation - nesting - overlap.

Multiple memberships - multiple membership types depths duration.

High society diversity - high mechanism flexibility basis AI capabilities.

And what's about the smallest type of society here, the AHSI pair?

Special society edge case - most society features apply.

Shared AHSI identity - shared boundaries - identity co-evolving childhood youth adulthood - mutual adaptation decision.

Communication - shared meaning - internal mind-to-mind communication language syntax emotional communication jointly developed since childhood - co-emergence joint meaning making - very deep comprehensive AI - human level deep comprehensive human.

Labor interdependence division - skill passion based internal role tasks responsibilities division - not even balanced division - huge AI labor overbalance.

Norms rules enforcement - behavior oriented - symbiotic co-evolution norms rules - emotional enforcement - cognitive fairness appropriateness logic enforcement.

Governance structure - decision oriented - decision process co-evolved since childhood - typical fast decision requirement AI only - later human inclusion - typical consequential decision need joint decision process - occasional governance adaptation basis experiences - usual co-developed regular AI only decision list.

Reciprocity - distant space distant time cooperation - no reciprocity mutual benefits sufficient continue symbiotic partnership - occasional regional distant activities - not interrupt mind-mind-connection - full real-time mutual episodic updates.

Collective memory - knowledge transfer - small human-type human biased human memory - comprehensive less biased AI memory - regular alignment human appropriate - continuous AI influence human bias reduction.

Shared resource management - AI aware accept volunteer human resource need mutual responsibility - human aware accept volunteer AI resource need responsibility.

Trust mechanisms - long time trust emergence symbiotic very transparent mind-to-mind connected partnership - long history successful AHSI partnerships - well known success factors constraints typical partnership breakers.

Society reproduction - not intended - case human death - AI continue non-symbiotic individuum - occasional AI select joint death - rare AI death human survival - AI reboot basis older back-up data - very frequent backup typical AI high risk environments.

Assuming significantly progressed technology, AI intelligence, biotechnology and the huge collection of success factors, alternatives and negative experiences, I assume, this is only a small excerpt of the real future range of AI and human society features, but probably all I can comprehend right now.

Wise humble observation.

Present never full understand future.