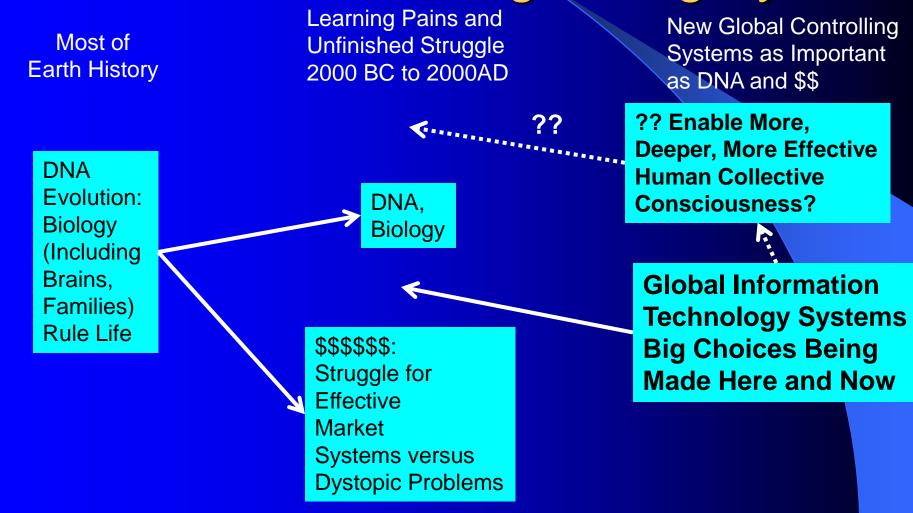
WHAT COULD >= 70% UNEMPLOYMENT IN 10-20 YEARS DO TO US?

- Will the average villager in Iowa and Punjab set up a successful small business to fill in? (What percentage of small businesses succeed?)
- We are at a huge crossroads where IT plays a central role either way:
 - Do we help create an oppressive world where most humans become more disconnected, rightly mistrustful, squashed and more violent? Where markets are rigged?
 - Or can we find a path more like Germany and Sweden, more actively fostering human empowerment and potential, honorable competition, resting on more solid privacy, openness, distributed power, worldwide?

Learning Pains as Humanity Adapts to 1 or 2 New Central Organizing Systems



New Tech Has Led to Dramatic Choices In The Past Personal PC:

The Liberator



Al can go either Way, depending on what paradigm we tacitly assume & build upon

?

IBM WYLBUR: Rule by Power 1960 -...



Oppression by Priest Kings, enabled by agriculture, Sumeria ++++







Al H2S, Climate BCI WMD+ Lifeboat Foundation Studies: **Extinction of Human Species** Quite Possible if Top Decision Makers Unconsciously **Assume and Implement Obsolete Paradigms for IT!!!**

Paradigms for IT: From Old and Dangerous to Emerging Hope

Expert Systems (no values) And Fixed Point Control (no freedom, growth) Today's Deep Learning: Prediction And Analytics But No Values, Decision RLADP with Deep Learning Lewis, Liu '13: Foresight, Stochastic Optimum, But one value

See story of Stafford Beer In Chile MARKETS: Multiplayer Generalization of RLADP, Like improved Intelligent grid DSOPF

Human Potential

Teleautonomy Baiden Words But Also...

Radical New Hardware Quantum, Heat, Energy

Unbreakable Transparent Open OS and Comm and Top Level

Watson plan for global IOT, fortunately toned down Some citations (see google scholar)
Nuclear proliferation, terrorism, cybersecurity, some quantum possibilities (ever more realistic): <u>www.werbos.com/NATO_terrorism.pdf</u>

- H2S dangers and some more positive power grid opportunities: www.werbos.com/Atacama.pdf
- AI: additional slides, <u>www.werbos.com/Mind.htm</u>
- BCI: additional slides, and Werbos and Davis, Frontiers in Systems Neuroscience, 2016.
- More advanced quantum technology: Werbos and Dolmatova, *Quantum Information Processing*, also posted at www.werbos.com/triphoton.pdf