

## UNICE global brain project (Presentation)

“Creating a global, independent, public-policy answer-engine that will facilitate governance, while preparing for and reducing the dangers of Artificial General Intelligence.”

**Michael E. Arth**

302 S. Hayden Avenue

DeLand, Florida 32724

[michaelearth@earthlink.net](mailto:michaelearth@earthlink.net)

Michael E. Arth; Tel.: +1-386-956-1554; Fax: +1-386-738-2230

*Accepted:*

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**{Slide 1}** UNICE is an acronym for Universal Network of Intelligent Conscious Entities.[1] I coined the term in the 1990s to describe the transformation of our species resulting from a new form of



The slide features a black background. At the top, the word "UNICE" is written in large, gold, serif capital letters. Below it, the full name "UNIVERSAL NETWORK OF INTELLIGENT CONSCIOUS ENTITIES" is written in smaller, gold, sans-serif capital letters. In the center is a circular image of a woman with voluminous, curly brown hair, looking directly at the camera. The image is framed by a thin white border. Below the image is a horizontal navigation bar with several buttons: "Home", "Logo", "cognitive-UNICE", "UNICE-wiki", "Topics", "Media", and "Contact". At the bottom, the text "UNICE Global Brain Project" is centered, followed by the project's mission statement: "Creating a global, independent, public-policy-answer-engine that will facilitate governance, while preparing for and reducing the dangers of Artificial General Intelligence".

U N I C E  
UNIVERSAL NETWORK OF INTELLIGENT CONSCIOUS ENTITIES

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**UNICE Global Brain Project**  
Creating a global, independent, public-policy-answer-engine that  
will facilitate governance, while preparing for and reducing the  
dangers of Artificial General Intelligence

cooperative, intelligent life developed from the hive-like interaction of computers, humans, and future forms of the Internet.[2] Before that happens, and to help ensure that Strong AI doesn't accidentally, or intentionally, wipe out the human race, a prudent and realistic goal would be to first develop UNICE as an independent, cognitive-computing tool for governance, protected from the interference of special interests. UNICE, using AI, could help lay the ethical groundwork for the development of Strong AI. It could also help people all over the world democratically govern themselves by having access to concise and rational analysis based on facts. An existing, not-for-profit, informational website, [UNICE.info](http://UNICE.info), launched in 2007, is now being developed into a global brain capable of making assessments, judgements, and recommendations based on information gleaned from all available sources. *The goal is to help bring the greatest good to the greatest number, in the most efficient manner, to this and future generations.*[3] Entities seeking special advantage for themselves or their group, company, religion or country will resist this universal guide to good governance. But fairness, and possibly our very survival, dictates that something like UNICE should exist for the benefit of all.

Because UNICE would be edited and written by increasingly sophisticated cognitive AI (which will later transition into AGI) UNICE would be far less subject to the inaccuracies, manipulation and bias found in Wikipedia, or in the thousands of existing research institutes we call "think tanks." Even as an intelligent zombie (AI without self-aware consciousness), UNICE could become a transparent form of distributed universal governance, protected with publicly accountable checks and balances, performed by the administrators and their democratically elected board of directors. It could also function as a global conscience, monitoring all governments and their actions.

{Slide 2} The problems of the world are well-known to the curious, but curiously ignored by our

**Serious Problems  
are not being  
solved:**

For example: The  
UN predicts Africa's  
population will  
quadruple to 4 billion

Boy in pink dress amidst "flying  
toilets" in Kibera—a slum in Nairobi.



governments. For example: The UN predicts that Africa's population will quadruple to 4 billion in this century, but not a single governing body—not even in Africa—has a plan to prevent this catastrophe. The boy in the picture is in Kibera, a Nairobi slum, standing amidst what are locally called "flying toilets." There is no plumbing, so people just defecate and urinate in a grocery bag, tie it up, and throw it as far as they can. A Swedish company called Peepoople tried to solve the problem by selling Africans a biodegradable, single-use "Peepoo bag," but even three cents a bag was too much for the people to pay. If the boy in the photo had had enough money to buy Peepoo bags he probably would have bought himself some second-hand pants so he wouldn't have to wear a dress.

{Slide 3}

Asia will add another billion in this century.

Does anyone here think that adding 4 billion people to Africa and Asia is a good idea?

Dying Beggar in India



Asia will add another billion. Raise your hand if you think that adding a total of 4 billion to Africa and Asia is a good thing.

{Slide 4} Many believe the world's population should continue to increase by 220,000 per day

- **Does anyone here think that...**
- Many believe the world's population should continue to increase by 220,000 per day because we need to keep expanding the population so the young will take care of the old. Does anyone here think this is sustainable?
- ... or that automation and AI will **not** take over almost all current jobs?
- Does anyone here think the War on Drugs is working?
- The War on Terror has reduced the number of terrorists?
- The U.S. electoral system involving pay-to-play and winner-take-all is a democratic ideal?
- Religious faith should be accepted as an epistemology as valid as the scientific method?
- Climate change and environmental issues should not be seriously addressed.
- A new Gilded Age based on inequality is fair or helpful?
- That Strong AI is not a potential threat to humans?

because we need to keep expanding the population so we'll have enough young to take care of the old and expand the consumer base. Does anyone here think this is sustainable? ....or that automation and AI will NOT take over almost all current jobs? including the care of the elderly?

Does anyone here think the War on Drugs is working? Or that the War on Terror has reduced the number of terrorists?

Does anyone think the U.S. electoral system with its pay to play, winner-take-all, and Electoral College represents the democratic ideal?

Or that religious faith should be accepted as an epistemology as valid as the scientific method?

Or that climate change and environmental issues are just scams to limit freedom?

Does anyone think the new Gilded Age based on inequality is fair or helpful?

Does anyone here think that Strong AI is not a potential threat to humans if not properly brought into existence?

{Slide 5}



I believe it is inevitable we will use the power of online collaboration to address all of our myriad problems. Eventually, UNICE will probably just one of a number of global brain projects that will harness the wisdom of the crowd in finding and publicizing rational solutions that governments will not be able to ignore. In the meantime, UNICE.info is an entry portal for several paths that UNICE can take, including both AI and human collaboration.

{Slide 6} UNICEwiki is an online wiki where any person can write, discuss, elaborate or criticize



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Page Discussion Read Edit View history Go Search

## Main Page

**Welcome to UNICEwiki,**  
the free-content, public policy wiki that anyone can edit.  
11 articles in English

- List of Topics
- Guide for Editors

**UNICE**, a global brain project, is an acronym for **Universal Network of Intelligent Conscious Entities**. The term was coined in the 1990s to describe the transformation of our species that will likely emerge from a new form of intelligent life developed from a hive-like interaction of computers, humans, and future forms of the Internet.<sup>[1]</sup> <sup>[2]</sup> More recently, the term also refers to a public policy wiki, which exists at [www.UNICE.info](http://www.UNICE.info) and here at [UNICEwiki.org](http://UNICEwiki.org).<sup>[3]</sup>

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- Goal of UNICE: A New Pragmatism
- A Holy Trinity of Checks and Balances
- Future of Cognitive-UNICE
- The Logo and the Logos
- Chrysalis of Technology
- Potential Criticisms
- Collaborative Topics
- External links
- Footnotes

### Goal of UNICE: A New Pragmatism [edit]

UNICE is an experiment in finding rational, pragmatic and consensus-based solutions that will aid in governance. Eventually, UNICE will function as a public-policy answer-engine, capable of interacting with anyone in any language. Ideally, she will evolve into a seamless, non-hierarchical form of governance that balances the world's resources with the needs of the people.<sup>[4]</sup> The aim of the global brain project is to develop superhuman heuristic abilities that can draw from all knowledge and data. As a Universal Network of Intelligent Conscious Entities, UNICE should ideally function as an objective, rational, compassionate, collective being with total command of all known facts. She is an effort toward creating a new pragmatism, independent of parties, factions or petty politics.<sup>[5]</sup> Simply stated, "the **goal** of UNICE is to help bring the greatest good to the greatest number, in the most efficient manner possible, to this and future generations."<sup>[6]</sup>

### A Holy Trinity of Checks and Balances [edit]

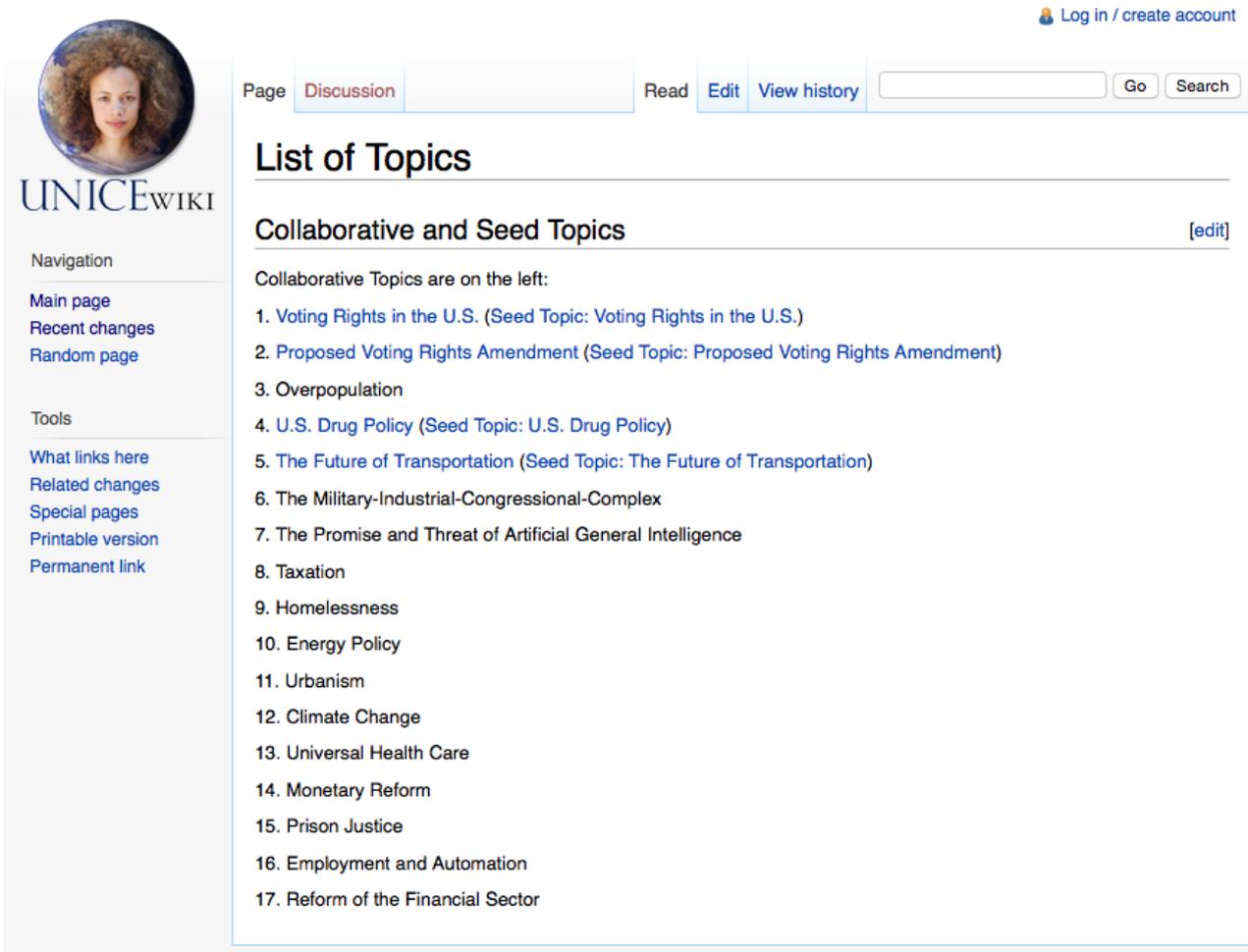
UNICE is an independent, not-for-profit organization consisting of three transparent branches: Seed Topics, Collaborative Topics, and cognitive-UNICE. All iterations will be available on UNICEwiki in the history of edits.

**1. Seed Topic:** Any person can write, discuss, elaborate or criticize policy topics at UNICEwiki. Long before cognitive-UNICE is functional, problems and solutions on various issues are now being systematically listed in seed topics. Wikipedia articles are required to be written in an encyclopedic neutral point of view (NPOV). UNICEwiki allows original research, opinion and humor, which can be called UNICE POV (UPOV) or Informed POV (IPOV). The seed topics should be written by people who consider themselves knowledgeable on the subject. The authors must identify themselves as well as any potential conflict of interest. A seed topic may not be edited by anyone but the author, but all seed topics are duplicated into collaborative topics for community editing.<sup>[7]</sup><sup>[8]</sup>

UNICE global brain project

policy topics. Long before cognitive-UNICE is functional, problems and solutions on various issues are systematically listed in seed topics that can be copied into collaborative topics for community editing. Wikipedia articles are required to be written in an often tedious, encyclopedic neutral point of view (NPOV), but UNICEwiki allows original research, opinion and humor.

{Slide 7} At UNICEwiki, a seed topic is written by any self-appointed expert. The author is only one



The screenshot shows the UNICEwiki interface. At the top right, there is a 'Log in / create account' link. Below it, there are tabs for 'Page Discussion', 'Read', 'Edit', and 'View history', along with a search box containing 'Go' and 'Search' buttons. The main heading is 'List of Topics'. Below this is a section titled 'Collaborative and Seed Topics' with an '[edit]' link. The text states 'Collaborative Topics are on the left:' followed by a numbered list of 17 topics:

1. [Voting Rights in the U.S. \(Seed Topic: Voting Rights in the U.S.\)](#)
2. [Proposed Voting Rights Amendment \(Seed Topic: Proposed Voting Rights Amendment\)](#)
3. [Overpopulation](#)
4. [U.S. Drug Policy \(Seed Topic: U.S. Drug Policy\)](#)
5. [The Future of Transportation \(Seed Topic: The Future of Transportation\)](#)
6. [The Military-Industrial-Congressional-Complex](#)
7. [The Promise and Threat of Artificial General Intelligence](#)
8. [Taxation](#)
9. [Homelessness](#)
10. [Energy Policy](#)
11. [Urbanism](#)
12. [Climate Change](#)
13. [Universal Health Care](#)
14. [Monetary Reform](#)
15. [Prison Justice](#)
16. [Employment and Automation](#)
17. [Reform of the Financial Sector](#)

On the left side of the page, there is a user profile picture and the text 'UNICEWIKI'. Below this are sections for 'Navigation' (Main page, Recent changes, Random page) and 'Tools' (What links here, Related changes, Special pages, Printable version, Permanent link).

who can edit their own seed topic, which is consigned to a list of topics. Presumably the author will take into account what is written in the collaborative version of their topic in subsequent edits.

At UNICEwiki, the seed topic is duplicated and transformed into an editable collaborative topic. It can be modified with anyone willing to follow the goal (bringing the greatest good to the greatest number in the most efficient manner possible) who can also make evidence-based edits. Both before and after cognitive-UNICE is launched, anyone will be able to examine UNICE's analyses, and provide summaries, criticism and other interactive services in wiki-UNICE.

{Slide 8} Here's an example of a collaborative topic on the future of transportation. You can see the problems and solutions are listed very concisely with at least one reference for every statement.

[Log in / create account](#)



**UNICE**<sub>WIKI</sub>

Navigation

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Read [Edit](#) [View history](#)

## The Future of Transportation

**Important Note:** Anyone may edit this Collaborative-UNICEwiki topic. (The original [Seed Topic: The Future of Transportation](#) may only be edited by the author). Please read the [Guide for Editors](#) before editing.

**Contents** [hide]

- 1 Collaborative-UNICE: The Future of Transportation
  - 1.1 Problems
  - 1.2 Solutions
  - 1.3 New challenges
- 2 References

[Collaborative-UNICE: The Future of Transportation](#) [edit]

**Problems** [edit]

1. **Growing numbers:** By 2020 there will be 2 billion gasoline powered, human-driven cars and commercial vehicles on Earth. About 1 in 4 people will own a vehicle. In the US, there are already 8 cars for every 10 people—more than one for every licensed driver.<sup>[1]</sup>
2. **Traffic-related accidents,** almost all caused by human drivers, kill more than 1.2 million people and injure as many as 50 million people per year.<sup>[2]</sup>
3. **Traffic congestion,** primarily caused by human driving habits and poor planning, wastes time, consumes fuel, adds to greenhouse gases and causes stress.<sup>[3]</sup>
4. **Taking up space:** Most vehicles are privately-owned and parked about 95% of the time.<sup>[4]</sup> In cities like Los Angeles, vehicle-related uses, including parking, takes up two-thirds of the built environment.<sup>[5]</sup>
5. **High direct and indirect costs:** According to the AAA, the average car, driven 15,000 miles in the U.S., cost \$9,100 in 2013 to own and operate. This does not include the cost to the environment, or the legal, medical and emotional costs of the injuries and deaths.<sup>[6]</sup>
6. **Public Transportation:** Cities designed for cars are ugly, encourage sprawl, and reduce the viability of public transportation. As a result, trains, planes and buses, all suffer from scheduling challenges and the "first/last mile" problem, which involves getting to and from transportation hubs.<sup>[7]</sup>
7. **Many people cannot or should not drive.** Car ownership is expensive and time consuming. Many people—especially the very young and the very old— must rely on others for rides.
8. **Severe environmental impact:** Motor vehicles take a lot of resources to build, store, insure and drive. Internal combustion engines are a major contributor to pollution and global warming. Building one car creates 100,000 pounds of waste and causes as much air pollution as operating it for ten years.<sup>[8]</sup>

**Solutions** [edit]

1. **The solution is to encourage the development and implementation of shared, electric-powered, autonomous vehicles.** A number of companies already have safe, working prototypes and automated driving features are available now in newer models. Most major car manufacturers expect to have fully autonomous models by 2020. In 2014, a self-driving, 560-horsepower RS7 Audi, with only a computer in the trunk, topped 149 mph on a racetrack to become the fastest driverless car in the world.<sup>[9]</sup>
2. **Batteries and solar power:** Tesla Motors already has a battery with a stated range of 370 miles (EPA) to 310 miles (NEDC). It has purchased at least one of their hundreds of 480-watt solar chargers.




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Eventually we hope to create a cognitive UNICE that can interact with any person or other entity in their own language at their own intellectual level. Cognitive-UNICE, which will at first use AI, but later Strong AI, will, together with all of us, create an evidence-based point of view supported by facts, scientific studies, and democratic precedence, within the framework of a simple guideline.[4]

The topics and commentary in wiki-UNICE can be the seeds for articles written by cognitive UNICE. As AI and AGI are developed, cognitive-UNICE would grow more sophisticated, responsive and useful. Cognitive-UNICE will study and incorporate wiki-UNICE in order to enhance its interactivity.

{Slide 9} We can imagine that around 2023 UNICE will not yet be conscious, but she could be so useful that Time Magazine may name her Entity of the Year, just as they named a Machine of the Year in Jan 1983 instead of a Man of the Year.



UNICE is depicted as a young, mixed-race person because the median age of all humans is 30 and youth represents openness to new ideas. She is female because cooperation, empathy, sensitivity, tolerance, nurturance, compassion and justice (as in Justitia or Lady Justice) are traditionally considered to be feminine traits. UNICE's afro represents the interconnected tendrils of the World Wide Web.

Concurrent with the development of a public policy wiki, the cognitive part of UNICE could long before 2023 begin functioning like IBM's medical Watson supercomputer, which is fast becoming the world's best diagnostician. [5] IBM's Watson Group reports that it will also have a "Public Sector" division whose motto is "helping government help its citizens." [6]

The biggest open question is whether computers can become conscious and what will happen when they do. Currently, the fastest computer in the world is the Tianhe-2 supercomputer in China that

can perform almost 34 quadrillion calculations per second. There is no reason to believe that this computer, or the Exaflop computers now in development, will be any more conscious than a bag of rocks.

{10} The key to consciousness may be quantum computing, but until recently it was thought that the

## Quantum computing may be the key to conscious global brain

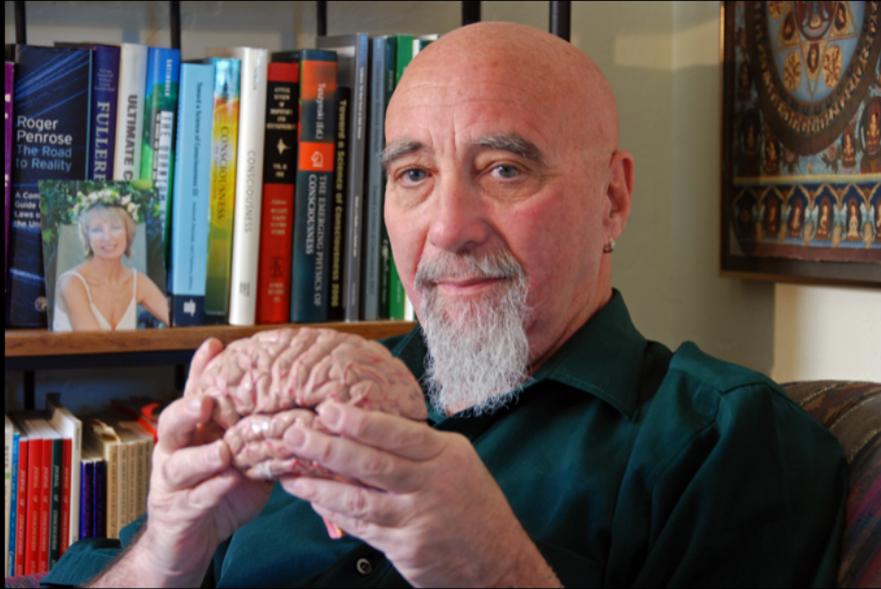
- Quantum computing is moving from highly controlled environments (near absolute zero in a non-magnetic vacuum) to pure silicon-28 at room temperature and quantum biology.

• Photo credit: CC-BY-SA-4.0 by Charles Lindsay



brain was too “wet, warm and noisy” for quantum processes. The world’s only commercial quantum computers sit inside of a special box that is kept in a vacuum, free of magnetic interference, which is the coldest place in the known universe.

{Slide 11}



## Stuart Hammeroff and Roger Penrose's Orchestrated Objective Reduction Theory Model of Consciousness

After writing *The Emperor's New Mind* in 1989, Penrose joined with Hammeroff to develop their theory about quantum processing in the microtubules of the neurons in the human brain. Previously ridiculed, quantum biology is now a fact, and consciousness may be due to quantum computing after all.

After writing *The Emperor's New Mind* in 1989, mathematician Roger Penrose joined with anaestheologist Stuart Hammeroff to develop their theory that quantum processing occurs in the microtubules in the neurons of the human brain. Previously ridiculed, quantum biology is now a fact— It has been shown to occur in photosynthesis, bird navigation and in olfaction. Consciousness is mysterious. Quantum computing is mysterious. It may turn out that these two mysteries are linked after all.



**{Slide 12}** Before we solve the mystery of consciousness and build conscious thinking machines, we have some serious business to attend to. In recent history, our human population has expanded into and exploited every niche. As dreamers, schemers, inventors, warriors, builders, consumers, and breeders, we have been like rapacious caterpillars encircling the Earth in a glistening chrysalis of technology. The outcome of our global metamorphosis is being determined by what we do now. Will this chrysalis be our tomb? Will our web of humanity, along with many other species, be destroyed before we reach our potential, just because we couldn't learn to control our numbers, temper our malevolent urges, or govern ourselves? Perhaps we will be cannibalized by a beast of our own creation because, like us, it will fail to sufficiently respect the lesser creatures or share power equitably. I prefer to think the chrysalis will incubate us to full maturity, and that when the time comes, we will break out of our shell and soar like that most beautiful of small creatures, and touch lightly upon the Earth. UNICE, which will be comprised of all of us working toward a cooperative goal, could help us safely make that transition.

## References and Notes

1. Michael E. Arth, "UNICE", *Consciousness Research Abstracts, Journal of Consciousness Studies*, **2008**, (Toward a Science of Consciousness Conference) Tucson, AZ, USA, p. 151.
2. Michael E. Arth, "The Future." In *Democracy and the Common Wealth: Breaking the Stranglehold of the Special Interests*, Golden Apples Media Inc., USA, 2010, ISBN 978-0-912467-12-2. pp. 438-439
3. Michael E. Arth, Chapter 1, "Restoring Democracy." In *Democracy and the Common Wealth*, Golden Apples Media Inc., USA, 2010, p. 12.
4. Ibid., The guideline, which should also be the goal of politics, is "to bring the greatest good, to the greatest number, in the most efficient manner possible, to this and future generations."
5. Lauren F. Friedman, "IBM's Watson Supercomputer may soon be the best doctor in the world." *Business Insider*, April 22, 2014
6. [ibm.com](http://ibm.com) website, accessed January 11, 2015

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