UNTIED NATIONS

Development within.

SUMMARY: UNTIED NATIONS

Project: A website for publicly compiling and displaying the costs in time and money to get and maintain property rights internationally.

Objectives: aid in converting a small amount of the $9.3 trillion in dead capital to "formal capital for the World's poor" by creating a benchmark for reference and research.

Time horizon: near term 6 months to impact full impact:5-10 years

Goal: 95% of the 3,120 indexes 95% current (3 month up to date)

Sector: International property rights procedures comparison via Open Source

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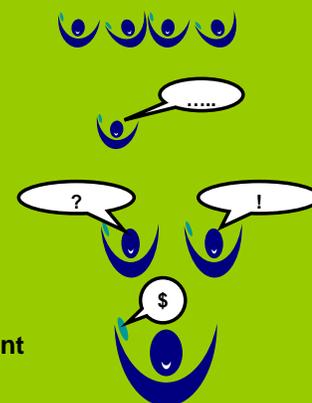
CONCEPT (SIMPLE & SCALABLE)

Poor people by definition don't own much, but what they do own they should have title to and security of. It is believed that having formal ownership is a step towards building an individual future one person, family and group at time.

Property rights and the ease of gaining them vary all over the world. Untied Nations believes that the resources of a country are intimately related to the efficacy of its systems for the administration of property rights.

Untied nations believes that by gathering data which gives a clear view of property rights systems around the world and allowing people to see it will encourage problems and inefficiencies in these systems to self correct without the necessity of outside intervention.

How Untied Nations works….

1 Documentation from the grass roots. (field evidence is best)

2 Open method: anyone can contribute (wider voices and awareness)

3 Comparison power: beat the neighbors (index)

4 Solutions better legislation and administration feedback is instant and public

www.untied-nations.org 3

In the sprit of naïve grass roots development, Untied Nations proposes to help people and governments help themselves. It promises no outside money, no outside advice or solutions. Untied Nations may function at best as a bit of look at how things really work within your borders and maybe a peak at your neighbor. What people do with this knowledge is up to them. Now isn't that refreshing? No preachy "experts", self righteous "helpers" or "consultants" guessing at what is going on in the field. Untied Nations would just like to hear how the property titling system may be working (or not) for people around the world. Thanks. We think you can all take care of any problems on your own.

STAGE (READY TO LAUNCH)

Untied Nations is getting its house in order, for what we hope are a few eager guests. This means a lot of carefully thought out database design. Of course all of this planning will fall over pending our first real hit of guests and contributors.

But that is OK, Untied Nations isn't going to hit its stride for awhile, we will just keep at it. Be as patient as we are and you'll see. The philosophy here isn't about shouting answers or advocating policy. It is about listening and focusing thoughts and ideas on property rights. The approach is one of water against the stone. Don't expect to ever hear the sounds bite, "millions or billions saved by Untied Nations". It just won't happen.

The best and most we are hoping for is that by focusing a few people around a simple idea, we can gain momentum. That momentum isn't anything but awareness. When a lot people look at something in the same way it changes. We would like to be lens focusing the people look at a problem if they so choose.

As an open source project the lens will be foggy and muddled at first, lots of noise and heckling etc. That will die down, the real work doesn't get done with noisy fans and media. It gets done with millions of quiet thought out contributions at a keyboard. Millions of breaths forming a gale. Now deeply inhale and come along…

Desired outcome

- **Reduction in procedural complexity**

- **Reduced cost ($/knowledge) of property rights**

- **Increased access to property rights**

- **More formalized property rights**

- **Increased Govt. revenues**

- **Decreased Corruption**

- **Increased wealth of all citizens through economic**

SECTOR & APPROACH

UNTIED NATIONS: Key theses

- Transparency of debate and method and results. Wiki approach to developing comparative government services index data sets.

- A society is open to the degree that participants have access to the agreements which govern and evaluate their interaction.

- A society is practical to the degree that the agreements which govern and evaluate the interactions of its participants make sense to those participants.

- Hypothesis based: the data is always a hypothesis for a given time. It is the best it is until something replaces it. See Karl Popper

- The resources (people and capital) for development are already in many countries. These resources are just a little tied up.

- The most powerful development and agents for change can come from within countries at the smallest stakeholder level.

- Start simply; evolve slowly to meet the needs of the problem domain.

- Problem solving is 90% awareness and framing the question 10%=Solution. (once most people recognize and understand a problem its easy)

- What gets measured gets managed: Governments should compete for best practice in serving their citizens and increasing their citizens sustained happiness. What else is their purpose, "flag waving and anthem singing?"

- Capital (money) goes where it is treated well.

- Cradle to grave property title analysis (recognition-maintenance-transference)

- There are 193 sovereign nations in the world, 61 dependent areas, and six disputed territories. 3,048 pieces of index data to collect and maintain.

- Capabilities and access to entitlements are vital. See Amartyra Sen

ABOUT:

1. **DEAD CAPITAL**
2. **WIKI**
3. **OPEN INDEX THEORY**
4. **AMARTYA SEN**
5. **KARL POPPER**

1. DEAD CAPITAL: $9.3 TRILLION PROBLEM

From the Economist,

No title Mar 29th 2001

According to Hernando de Soto, a Peruvian economist, the total value of the fixed property held but not legally owned by the poor of the third world and former communist countries is at least $9.3 trillion*. This is a staggering figure. It is 20 times the total of foreign direct investment into developing countries between 1989 and 1999, and 93 times the amount of development assistance from all rich countries to the third world in the past three decades.

Economists tend to think of the informal economy as a marginal phenomenon, of interest only to missionaries, aid workers and the police. But in many, perhaps most, developing countries, the informal economy is bigger than the formal one. In a typical African country, barely one person in ten lives in a formal house and only one worker in ten holds a formal job.

The advantages of sound property rights are so taken for granted in the West that it is worth spelling them out. First, secure title makes assets fungible. In a country with good property laws, almost anyone can use a house or a piece of land as collateral to raise a loan. It is also easy to divide assets between multiple owners. Ownership of a factory can be shared out among hundreds of people, any of whom can easily sell all or part of his share without the need to take the factory physically apart. If a French farmer dies, his children can sell the farm, or retain equal shares in it, or the more agriculturally- inclined sibling can buy the others out. The possibilities are legion. African smallholders have much less flexibility: plots tend to be divided into ever-smaller parcels with each generation.

A uniform property system is also a way of sharing knowledge. When information about the ownership and value of houses, companies and other assets is centrally recorded and freely available, it makes it easier for people to see economic opportunities outside their own neighborhood. In other words, formal property law enables people to do business with strangers. Those who are part of the formal property system have addresses, credit records and identifiable assets. A westerner who does not honor his debts is blacklisted. The bailiffs know where to find him, and what to seize. So he has a powerful incentive to play by the rules.

Property = A Future

- Owning property, having title to property and being able to transfer ownership provide security and a future.

- Often this security and power is not available to the poorer elements of a society.

- Property allows for security. Security allows investment in one's own and a families' future.

- People act in their own self interest.

- Development of formal property rights is in everyone's self interest especially the poorest.

Millions of third-world squatters, by contrast, cannot obtain telephone or electricity lines because no one trusts them to pay their bills.

Western property laws protect not merely ownership, but transactions too. People in poor countries can usually prevent their assets from being stolen by forming self-defense groups or hiring the muscle of local mobsters. But they cannot confidently buy anything they cannot see. Poor people carry their pigs and tobacco bales physically to market. The prohibitive cost of carrying them back means that they have to sell them straight away, whether prices are good or not. American farmers sell paper representations of their crops, which is easier. To smooth their cash-flow, they can sell the rights to purchase crops which have not yet been sown.

2. WIKI

A *Wiki* or **wiki** (pronounced "wicky" or "weekee") is a website (or other hypertext document collection) that allows a user to add content, as on an Internet forum, but also allows that content to be edited by any other user.

The term Wiki can also refer to the collaborative software used to create such a website (*see Wiki software*).

Linking and creating pages

Wiki are a true hypertext medium, with non-linear navigational structures. Each page typically contains a large number of links to other pages. Hierarchical navigation pages often exist in larger Wiki, but do not have to be used. Links are created using a specific syntax, the so-called "link pattern."

Controlling users (lightly)

Most Wiki shun mandatory registration procedures. Nevertheless, many of the major wiki engines (including MediaWiki, MoinMoin, UseModWiki and TWiki) provide ways to limit write access. Some wiki engines allow individual users to be banned from editing, which can be accomplished by blocking their particular IP address or, if available, their username.

To see and understand one of the most successful Wiki projects visit.

www.wikipedia.org
Like all beautiful design it is self explanatory.

A common defense against persistent "vandals" is to simply let them deface as many pages as they wish, knowing that they can easily be tracked and reverted after the vandal has left. This policy can quickly become impractical, however, in the face of systematic defacements born out of anger or frustration.

As an emergency measure, some Wiki allow the database to be switched to read-only mode, while others enforce a policy in which only established users who have registered prior to some arbitrary cutoff date can continue editing. Generally speaking, however, any damage that is inflicted by a "vandal" can be reverted quickly and easily. More problematic are subtle errors inserted into pages which go undetected, for example changing of album release dates and *discographies* on Wikipedia.

Philosophically, Untied Nations is built on lessons learnt from the Free Software/Open Source movements. Movements which are based on novel approaches to large-scale collaboration made possible by the growth of communications media such as the Internet. The traditional model of collaboration is largely conditioned by the practical limitations in our communications technology, which limits the number and organization of participants to a small group organized as a hierarchy with the root nodes having the authority to implement policy or a committee with the authority to make recommendations.

With the advent of new delivery mechanisms and collaborative environments it becomes possible for participants to self-organize around a problem-solving environment where participants are free to come and go and the knowledge base developed is ever-evolving as new information becomes available.

3. OPEN INDEX

in·dex
Pronunciation: `'in-"deks`
Function: *noun*
Inflected Form(s): *plural* **in·dex·es** *or*
in·di·ces `/-d&-"sEz/`
Etymology: Latin *indic-, index,* from *indicare*
to indicate
1 a : a device (as the pointer on a scale or the gnomon of a sundial) that serves to indicate a value or quantity b : something (as a physical feature or a mode of expression) that leads one to a particular fact or conclusion

Well that is it. We just want to point. We want to point to every country and keep tabs on how to gain and maintain property rights.

Most indices are closed, i.e. It might be a little tough to see how they are compiled, or they are compiled by experts with lots of training in econometrics and other mystical arts.

We propose an Open Index, in the spirit of field anthropology; Untied Nations recommends listening to those in the field and reporting their stories. If it takes 20 weeks to get a piece of paper rubber stamped by the minister of rubber stamps, then we want to know.

Index:

- People and groups measure success relative to others.

- Public awareness of a problem situation often causes a desire for change in that situation however small.

- Lists or Indexes comparing countries allow for comparison and public pressure for better governance.

- Example Transparency International (corruption index), GDP development figures, inflation rates.

- Public indexes lead to awareness. Awareness leads to a desire for change. Desire leads to action.

- This will not happen overnight.

- Greater awareness and understanding lead to the first step

Policymakers rarely have the courage to watch their policies implemented as it can be a little rough on the eye. In some place policies are put in place, for the little people. Untied Nations is all about the little people.

Indices are a way of using basic human nature for change. We are a curious lot, and always wondering why someone else's X is faster, bigger, smaller, cheaper or more expensive. This social comparison is powerful. If your neighbor can own his house and have money, why can't you.

The nice thing about property rights is that they are a service. The cost scales across all countries as a function of the bureaucracy. And yes property rights have been managed without and before computers. Paper works and will be around for a long time. So please understand the problem before throwing silicon at it.

The Untied Nations indices will be dynamic. As new contributions come in the index will automatically tabulate. Messy you say, yes we agree. Over time the indices should settle down to reflect something of the real underlying procedural reality in the respective countries. On occasion, yearly, quarterly etc. Untied Nations will strive to release a fixed benchmark. The media will jump all over this, people will swarm in and for 2 weeks everything will be a mess. Don't worry it will calm back down and function again.

4. AMARTYA SEN

From the Wikipedia: Amartya Kumar Sen is a [Bengali](#) economist known for his work on [famine](#), [Human development theory](#), [welfare economics](#), and the underlying mechanisms of [poverty](#). He received the [Nobel Prize](#) in [1998](#).

Sen's best-known work is his [1981](#) volume *Poverty and Famines: An Essay on Entitlement and Deprivation*, in which he demonstrated that famine occurs not from a lack of [food](#), but from inequalities built into mechanisms for distributing food. In addition to his important work on the causes of famines, Sen's work in the field of development economics has had considerable influence in the formulation of the [Human Development Report](#), published by the [United Nations Development Program](#). This annual publication that ranks countries on a variety of economic and social indicators owes much to the contributions by Sen among other social choice theorists in the area of economic measurement of poverty and inequality.

Sen's revolutionary contribution to development economics and social indicators is the concept of 'capability.' Realizing that top-down development will always trump [human rights](#) as long as the definition of terms remains in doubt (is a 'right' something that must be provided, or something that simply cannot be taken away?), Sen argues that [governments](#) should be measured against the concrete capabilities of their [citizens](#). For instance, in the [United States](#) citizens have a constitutional "right" to vote. To Sen, this concept is fairly empty. He would ask whether all the requisite conditions are met so that the citizen has the capability to [vote](#). These conditions can range from the very broad, such as the availability of [education](#), to the very specific, such as transportation to the [polls](#). Only when such barriers are removed can the citizen truly be said to act out of personal choice. It is up to the individual society to make the list of minimum capabilities guaranteed by that society.

Sen was a ground-breaker among late [twentieth-century](#) economists in his insistence on asking questions of value, long removed from 'serious' economic consideration. He mounted one of the few major challenges to the economic model that posited self-interest as the prime motivating factor of human activity. While his 'school' remains in a minority, there is no question that his work helped to re-prioritize a significant sector of economists and development workers, even the policies of the United Nations.

> ## One of the many reasons Untied Nations likes Amartya Sen:
>
> "*The absurdity of [public-choice theory](#) is captured by Nobel Prize-winning economist Amartya Sen in the following little scenario:*
> ***"Can you direct me to the [railway station](#)?" asks the stranger. "Certainly," says the local, pointing in the opposite direction, towards the [post office](#), "and would you post this letter for me on your way?" "Certainly," says the stranger, resolving to open it to see if it contains anything worth stealing.***"

5. SIR KARL POPPER?

From the Wikipedia: Karl Raimund Popper is counted among the most influential [philosophers of science](#) of the [20th century](#), and also wrote extensively on social and political philosophy. Popper is perhaps best known for repudiating the classical observationalist-inductivist account of science; for advancing empirical [falsifiability](#) as the criterion for distinguishing [scientific theory](#) from non-science; and for his defense of [liberal democracy](#) and the principles of social criticism which he took to make the flourishing of the "[open society](#)" possible.

POPPER'S PHILOSOPHY

Popper coined the term *[critical rationalism](#)* to describe his philosophy. This designation is significant, and indicates his rejection of [classical empiricism](#), and of the observationalist-inductivist account of science that had grown out of it. Popper argued strongly against the latter, holding that [scientific theories](#) are universal in nature, and can be tested only indirectly, by references to their implications. He also held that scientific theory, and human knowledge generally, is irreducibly [conjectural](#) or [hypothetical](#), and is generated by the creative [imagination](#) in order to solve problems that have arisen in specific historico-cultural settings. **Logically, no number of positive outcomes at the level of experimental testing can confirm a scientific theory, but a single genuine counter-instance is logically decisive**: **it shows the theory, from which the implication is derived, to be false.** Popper's account of the logical asymmetry between [verification](#) and falsification lies at the heart of his philosophy of science. It also inspired him to take [falsifiability](#) as his criterion of demarcation between what is and is not genuinely scientific: a theory should be accounted scientific if and only if it is falsifiable. This led him to attack the claims of both [psychoanalysis](#) and contemporary [Marxism](#) to scientific status, on the basis that the theories enshrined by them are not falsifiable. His scientific work was influenced by his study of [Albert Einstein](#)'s theory of relativity. Popper's [Falsificationism](#) resembles [Charles Peirce](#)'s [fallibilism](#). In *Of Clocks and Clouds* (1966), Popper said he wished he had known of Peirce's work earlier.

In *[The Open Society and Its Enemies](#)* and *The Poverty of Historicism*, Popper developed a critique of [historicism](#) and a defense of the 'Open Society', [liberal democracy](#). Historicism is the theory that history develops inexorably and necessarily according to knowable general laws towards a determinate end. Popper argued that this view is the principal theoretical presupposition underpinning most forms of [authoritarianism](#) and [totalitarianism](#). He argued that historicism is founded upon mistaken assumptions regarding the nature of scientific law and prediction. Since the growth of human knowledge is a causal factor in the evolution of human history, and since "no society can predict, scientifically, its own future states of knowledge", it follows, he argued, that there can be no predictive science of human history. For Popper, metaphysical and historical indeterminism goes hand in hand.

I

Why Untied Nations is hypothesis based?

- Never correct, always best hypothesis for a given time and a given resource base assessing impact

- There are no absolutes change is the constant.

- How change is directed and focused makes all of the difference.

- From site visitors and contributors: Do not request or seek action.

- Request thought and reflection.

Why Untied Nations likes Karl Popper

"true ignorance is not the absence of knowledge, but the refusal to acquire it."

Karl Popper

THE 12 UNTIED NATIONS INDEXES

Index attributes:

- Each index measures an aspect of property ownership in the property lifecycle (birth, management and finally transfer)
- Each index is developed publicly
- Each index figure is a hypothesis
- Each index measures property rights in terms relative to the "average" citizens income/time or capabilities
- Each index includes all costs implicit or explicit faced by an individual pursing the respective property right

1. Cost of Obtaining Title	The cost of gaining title to a single family dwelling in a country. Expressed as a ratio of Cost relative to GDP of the "average" person 95% percentile income threshold expressed in days. Example: country X GDP=$3,000 and gaining title to a single person dwelling costs $300. Property titling ratio is 36.5 days of income/work
2. Time to Obtain Title	The time required to register or recognize formally the smallest land holders title or change in title. Measured in days of actual elapsed time required.
3. Cost to Establish the Smallest Corporation	The cost required to establish a single proprietorship with full legal protection at all level of govt. allowing the start of effective trading. Expressed as a ratio of Cost relative to GDP of the "average" person 95% percentile income threshold expressed in months. Example: country X GDP=$3,000 and gaining title to a single person dwelling costs $300. Incorporation ratio is 36.5 days of income/work
4. Establish smallest corporation time	The time required to register a single person proprietorship with full legal protection at all levels of govt. allowing the start of effective trading. Measured in days of actual time required.

5. Cost to Protect IP (patent)	The cost required to establish a single utility type patent with full legal protection. Expressed as a ratio of Cost relative to GDP of the "average" person 95% percentile income threshold expressed in months. Example: country X GDP=$3,000 and gaining title to a single person dwelling costs $300. IP Protection ratio is 36.5 days of income/work
6.Time to Protect IP (patent)	The time required to effectively receive a recognized patent Measured in days of actual time required.
7.Time to Protect trademark	**The average time in which a trademark dispute is independently legally resolved.**
8.Cost to Protect Trademark	The cost involved in defending a trademark against infringement in terms of procedural costs. Expressed as a ratio of Cost relative to GDP of the "average" person 95% percentile income threshold expressed in months. Example: country X GDP=$3,000 and gaining title to a single person dwelling costs $300. Trademark protection ratio is 36.5 days of income/work
9.Small Claims Dispute (resolution time)	**The average time measured in days it takes to formally resolve a small claims dispute. Example failed creditor etc.** **Small claims are disputes in amounts considered to be a function of 1% of average income per year.** **Time is measured in days until settlement reached**
10.Property claim/dispute resolution time	**Amount of time in days from filing to receiving judgment in a property dispute involving a single family dwelling**
11.Estimated dead personal property as a %GDP & PPP	
12.Estimated dead commercial property as a %GDP & PPP	

SOFTWARE

Untied Nations is being built, from the ground up, to support data capture, knowledge development and large scale collaboration based on the following Philosophy:

Transparency	For there to be understanding, knowledge of the methods and events which led to the results can often be as important as the results themselves.
Falsifiability	Sometimes, in the light of new information, we may find our understanding growing.
Universal Access	In complex environments it can sometimes be found that information flows between the most unlikely of people and places.
Ease of Use	Access occurs when there are no significant skill or educational barriers to entry.
Dialogue	Issues that affect many people find swift resolution when many people are exchanging their points of view.
Reflection	The best insights come, most often, during prolonged meditation on many different points of views.

Code:
Currently 100% developed in Java Database served by MySQL. Investigating IBM's Cloudscape engine as a smaller footprint alternative.

Server
Currently serving from MySQL and an Apache Tomcat server on shared hosting which is sufficient for development and could comfortably withstand the first two seconds of a rising exponential before falling over.

Current Progress
Hacking commenced at the beginning of September 2004 and has made good progress despite a shortage of dedicated time and resources to devote to development. It is now mid-November and a limited set of functionality has been deployed at http://www.untied-nations.org/untiednations and http://www.untied-nations.org/JSPWiki Apart from the content which constitutes Untied Nations the architecture of the Untied Nations codebase can be divided into three rough layers.

Framework Code
A general purpose library of code which abstracts core database functionality, web rendering and object manipulation to create a unified object/relational syntax suitable for distributed storage and manipulation of data.

The basic functionality required from the Framework code is now feature complete. Future development will scale with the periodic refactoring of code from other layers into the Framework as more sophisticated visualization and data entry mechanisms are developed.

Data Store
A SQL relational database for the capture of Index data, process information, organizational detail and other structured information relevant to our mission. Currently the database schema is approx. 90% feature complete with the bulk of current development going into minor refactoring as development continues.

User Interface

The user interface integrates a basic Wiki system (from http://www.jspwiki.org) with the Data Store in order to create a user-friendly environment which integrates free hypertext with structured data and does not require any specialized training beyond familiarity with the most basic user interface idioms for its operation. (Point. Click.)

Current progress sees the first iteration of the site look & feel complete and the core Wiki deployed on the Untied Nations website.

The supporting code for structured data manipulation is approx 50% complete and at the level required for us to commence with systems integration between the Data Store and Wiki.

Our next important milestone is to complete systems integration in order that we can discard the interface at http://www.untied-nations.org/untiednations and begin the iterative process of development and user testing.

Content development has been progressing steadily with preliminary index datasets obtained from the World Bank and ontological decisions made upon the structure and scope of the domain we are addressing.

The next steps are to move the archives of our preliminary discussions onto the Wiki in a summarized form and build a basic structure of Wiki Links around them which will act as a stable scaffold on which to hang future contributions.

Entry of structured data has already begun but will have to wait for systems integration between the Wiki and Data Store to be complete before it can get into full swing.

SCALABILITY

Once Untied Nations attracts more regular visitors it will be time to add new hardware. In terms of the work distribution amongst system components scaling will probably need to step up in the following sequence:

[Time estimates assume that we are wildly successful and eventually build a visitor and user base similar to mid-level sites such as slashdot.org or www.kernel.org

[CPU Speeds assume Intel/AMD hardware, if someone feels like donating PowerPC or SPARC hardware we will, be much less picky.]

[Price estimates based on self-assembled components bought in ZA add +- 25% for ready-assembled US systems.]

Step 1: Est. 1 month before launch
Move site from shared hosting provider to dedicated hardware.
Bandwidth: Provider offering multiple T3 routes.
Hardware:
>Single 3GHZ CPU
>4 Gig RAM
>4x 10000 rpm SATA 80gig drives in RAID 0
>+- US$ 2000

Step 2: Est. 3 months after launch
Split application server from database server
Hardware:
>Dual 2->3GHZ CPU
>4 Gig RAM
> 4x 10000 rpm SATA 80gig drives in RAID 0
>+- US$ 3000

Step 3: Est. 6 months after launch
Load balance application server
Hardware:
>Single 3GHZ CPU
>4 Gig RAM
>1x 10000 rpm SATA 80gig drive
>+- US$ 1500

Step 4: Est. 9 months after launch
Load balance application server and database server
Hardware:

Single 3GHZ CPU	Dual 2->3GHZ CPU
4 Gig RAM	4 Gig RAM
1x 10000 rpm SATA 80gig drive	4x 10000 rpm SATA 80gig drives
+- US$ 1500	in RAID 0
	+- US$ 3000

Step 5: Heavy Usage Support
Once we start heavy usage, additional steps can be scaled with the periodic purchase of the following sets of equipment until saturation is reached. Est. every 2 months.
Hardware:

Single 3GHZ CPU	Single 3GHZ CPU	Dual 2->3GHZ CPU
4 Gig RAM	4 Gig RAM	4 Gig RAM
1x 10000 rpm SATA 80gig drive	1x 10000 rpm SATA 80gig drive	4x 10000 rpm SATA 80gig drives in RAID 0
+- US$ 1500	+- US$ 1500	+- US$ 3000

Backup
A temporary solution to backup is provided by the redundant replication of system data across the servers but is not sufficient in the long run. Depending on dataset growth we can exist for a long while with a single DAT Tape storage machine. If our dataset show signs of scaling beyond the 100 gig range we will have to look to professional offsite backup services and heavier-duty backup hardware.

DEVELOPMENT : S, M OR SUPER SIZED

Development is a function of resources available and market response. If Untied Nations catches on conceptually like the webopedia and blogging etc. It should self assemble. It is assumed the "curve" or trajectory of the project will be exponential and therefore very slight in the beginning, then accelerating at a certain point.

Regardless of uptake the core team of Untied Nations would like to build in advance as robust an application and hosting environment as possible. To that end 3 funding models, with their respective allocations of resources have been put forth below.

SMALL

The guerilla option; a bare minimum of comforts and many all-nighters ensures success in the absence of the kind of funding usually associated with software development.

1x Lead coder: US$2,000/mth	Responsible for architecture, implementation and QA.
1x Graphic artist fee: US$3,000/once off	Rendering of site look and feel into professional and consistent form
Equipment:	1x Dedicated Server Hosting: US$??? / month + US$??? / once off 1x ADSL: US$150 / month

Total burn rate: $2.5k/month   **Total once off: $25,000**

MILESTONES:

3 Month
Core functionality complete

- WikiLike collaborative environment with ability to capture data and display rudimentary views.

6 Month
Usability

-User feedback integration

-Interface evolution

Features

- Wider range of data visualization

12 Month
Integration

- Exposure of core functionality and datasets to other projects.

-Live connection of other data sources. (e.g. World Bank, Economic Indicators, News feeds, Government data sources)

MEDIUM

Traditional 'small software startup' scenario the increased salaries and team size allows for less stressful development schedule and a significant step in functionality by including basic modeling and simulation displays that could not be achieved in the SMALL option and which could have a significant effect on the impact of the data on site visitors.

1x Lead coder:US$4,000/mth.	Architecture
	Data visualization
	Simulation and Modeling
	Testing framework.
1x Assistant coder:US$2,000/mth.	Wiki like environment, Integration & User requests
	.Extreme Programming partner http://www.extreme-programming.org???
1x Graphic artist:US$1,500/mth	.Rendering of site look and feel into professional and consistent form.
	.Rendering of visualization designs
	.Rendering of simulation UI elements
Equipment:	1x Dedicated Server Hosting: US$??? / month
	3x ADSL: US$450 / month
	1x Laptop: US$2,500 /gives lead coder mobility to work with assistant coder for extreme programming sessions.
	1x Development Server: US$1,500 / once off
	Codebase not updated on http://www.untied-nations.org until it checks out 100% on the development server.
	1x Development tool budget: US$3,000. IDE's

Total burn rate: $9k/month   Total once off:$106k

MILESTONES:

3 Month
Core functionality complete

- Wiki like collaborative environment with ability to capture data and display rudimentary views.

Features

- Wider range of data visualization

6 Month
Usability

- User feedback integration

- Interface evolution

. Integration

- Exposure of core functionality and datasets to other projects.

- Live connection of other data sources. (e.g. World Bank,

Economic Indicators, News feeds, Government data sources)

12 Month
Integration

- Exposure of core functionality and datasets to other projects.

-Live connection of other data sources. (e.g. World Bank, Economic Indicators, News feeds, Government data sources)

Features

- Rudimentary modeling and simulation capability

SUPERSIZED

This option is based on an equivalent-sized project in an established environment such as an in-house corporate IT team or an independent software house. It is believed that for Untied to be sustainable, it is important to build a foundation for reaching this level of income / funding at some point in the future.

Remuneration rates shown here are based on ZA pricing for equivalent skills and experience in corporate contract software development market. Milestones are largely unadjusted in this option as the primary benefit of increased team size is a reduction of workload to long-term sustainable levels. The one exception to this is the added QA and junior coder; allowing Untied Nations the option to deploy the framework for a paying customer. E.g. Legal consultant, Government department, NGO etc.

1x Lead coder: US$,6000/mth	
1x Assistant coder: US$4,000/mth.	
1x Junior coder: US$ 2,000/mth.	Take over grunt work from Lead and Assistant coder. Only needed end month two.
1x Graphic artist: US$2,000/mth.	
1x Build Master +QA Engineer: US$1,500	Perform daily builds of the codebase, run unit tests and user testing.. Only needed end month three.
1x User Support: US$ 1000	Responsible for user testing, answering user queries and keeping an eye on the http://www.untied-nations.org site. Only needed end month five.
Equipment:	1x Dedicated Server Hosting: US$??? / month
	6x ADSL: US$900 / month (Could be less if team close enough together to share via Wi-Fi)
	1x Laptop: US$2,500 / once off
	1x QA Workstation: US$1,500 / once off, it is unlikely that this person will have their own equipment.
	1x Support Workstation: US$1,500 / once off unlikely that this person will have own equipment.
	1x Development Server: US$1,500 / once off
	1x Development tool budget: US$6,000
	. IDE's, profiling and stress testing tools.
Expenses	8x Air tickets, T&E: +/- US$ 12,000. meetings of primary Untied team

Total burn rate: **$16k/month**   **Total once off: $190k**

MILESTONES:

3 Month
Core functionality complete

- WikiLike collaborative environment with ability to capture data and display rudimentary views.

Features

- Wider range of data visualization

6 Month
Usability

- User feedback integration

- Interface evolution

Integration

- Exposure of core functionality and datasets to other projects.

- Live connection of other data sources. (e.g. World Bank, Economic Indicators, News feeds, Government data sources)

12 Month
Features

- Rudimentary modeling and simulation capability

Deployment

- On-site installation of Untied framework for a paying customer

MAKING CHANGE:

The belief is that change will not be very rapid, nor will it be very automatic. It will be gradual and the influence of Untied Nations will be that of knowledge repository. After a bit of time 3-5 years and a few academic papers referencing and hopefully using the data points among others to back up the impact of best practice on property rights.

It is hoped that groups and individuals who may have some degree of influence on property rights for the poor in their respective countries may be able to point to processes which can be improved. The thesis is that titling property is a service and that like any service can be improved. The first step in improving the quality of service is measuring it and identifying best practice. The solutions and degrees of improvement around the world will vary broadly. Even a slight impact in a $9.3 trillion dollar problem is significant. Untied Nations impact should it succeed as a reference will probably never be known. It could theoretically create billions of dollars in value for millions of people and have an ROI of 0% for itself. If this occurred the founders would consider it a success.

Who will use this tool?

- **Average citizens seeking security of title to property**
- **Governments (increased tax bases)**
- **Economic researchers/academics**
- **Lawyers studying proper procedure within and among regions**
- **Citizens with net access needing process information**
- **Legislators looking for procedural benchmarks**
- **NGO's lobbying for better policy**
- **Comparative legal scholars and economic researchers**

MANAGEMENT TEAM:

Nick Gogerty

He has held various consulting and strategy jobs primarily in product design, marketing and technology assessment, for various technology start-ups. His finds the most fun thing is creating well designed products and services for end markets using his anthropology background. He has a short tolerance for products and services that don't put people first.

Nick Gogerty has an extensive background in technology and experience in banking. He was recently the chief technologist in a deep future science lab in Belgium, modeled after MIT's MediaLab. He has consulted with many groups and governments on technology including multi-nationals to small software houses. During university he built a small database design firm which worked with the database marketing powerhouse Acxiom.

Nick Gogerty has appeared before the U.S. Senate about technology risk as well as been interviewed by many media outlets such as CNN, Wall Street Journal, ABC, AP, Reuters and others about technology.

Nick Gogerty holds an MBA from the Ecole de Ponts et Chaussees in Paris and various securities & derivatives licenses in the US and UK. He has lived and worked in 6 six countries including: Denmark, Dubai, France, Sweden, U.K. and his native country the United States.

He spends his spare time with his wife and wishing he could travel and paraglide more often.

Antoine van Gelder

Antoine van Gelder ran away from home at the age of 17 to join a heavy metal band and was almost as surprised as everyone else when he woke up one day to find himself porting code to a Cray supercomputer.

He contributes a decade of experience hacking code and managing development teams in industry sectors as diverse as power management, the Internet, distance education and bioinformatics.

He has contributed to scientific publications, presented at international conferences and helped to initiate the first international Bioinformatics Open Source Hackathon which was held jointly in Tucson, USA and Cape Town, South Africa.

He has acted as an independent consultant to Old Mutual, South Africa's largest insurance and financial services company, numerous small businesses and the South African Medical Research Council.

Antoine van Gelder has over a decade of practice in the Theory of Constraints, a management philosophy.

Recently, he spent a year growing tomatoes and recording his second album of music on a small farm in the arid Karoo region of South Africa where he made a promise to an elder at a local village to find out why, ten years after the election which set South Africa free, they still could not own their own land.

When he is not hacking Untied Nations he can usually be found hanging out with his life partner and her children, performing music or diving the icy Cape Town water.

IP PROTECTION AND COMPETITION

Untied Nations is producing it's work under a Creative Commons License.

http://creativecommons.org/

This form of Copyright allows for the re-use of the output of the website for non-commercial purposes. Untied Nations will request formal citation of its property in order to gain more awareness and credibility for its efforts and output.

FINANCIALS

These are a function of the burn and cash available. To date the founders have donated all times and the cost of establishing a basic website and domain registrations etc.

amounts in 000's USD

Small	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	1st yr total	Q5	Q6	Q7	Q8
Personnel	$2.0	$2.0	$5.0	$2.0	$2.0	$2.0	$2.0	$2.0	$2.0	$2.0	$2.0	$2.0	**$27**	$6	$6	$6	$6
Equipment	$0.3	$0.3	$0.3	$0.3	$0.3	$0.3	$0.3	$0.3	$0.3	$0.3	$0.3	$0.3	**$3**	$1	$1	$1	$1
Misc	$2.0												**$2**	$0	$0	$0	$0
Total	**$4**	**$2**	**$5**	**$2**	**$2**	**$2**	**$2**	**$2**	**$2**	**$2**	**$2**	**$2**	**$32**	**$7**	**$7**	**$7**	**$7**

Medium																	
Personnel	$7.5	$7.5	$7.5	$7.5	$7.5	$7.5	$7.5	$7.5	$7.5	$7.5	$7.5	$7.5	**$90**	$23	$23	$23	$23
Equipment	$0.5	$0.5	$0.5	$0.5	$0.5	$0.5	$0.5	$0.5	$0.5	$0.5	$0.5	$0.5	**$6**	$2	$2	$2	$2
Misc	$2.0	$7.5											**$10**	$0	$0	$0	$0
Total	**$10**	**$16**	**$8**	**$8**	**$8**	**$8**	**$8**	**$8**	**$8**	**$8**	**$8**	**$8**	**$106**	**$24**	**$24**	**$24**	**$24**

Super Size																	
Personnel	$10.0	$10.0	$11.5	$11.5	$11.5	$11.5	$11.5	$11.5	$11.5	$11.5	$11.5	$11.5	**$135**	$35	$35	$35	$35
Equipment	$0.9	$0.9	$0.9	$0.9	$0.9	$0.9	$0.9	$0.9	$0.9	$0.9	$0.9	$0.9	**$11**	$3	$3	$3	$3
Misc	$13.5	$6.0	$2.5	$2.5	$2.5	$2.5	$2.5	$2.5	$2.5	$2.5	$2.5	$2.5	**$45**	$8	$8	$8	$8
Total	**$24**	**$17**	**$15**	**$15**	**$15**	**$15**	**$15**	**$15**	**$15**	**$15**	**$15**	**$15**	**$190**	**$45**	**$45**	**$45**	**$45**

GETTING USERS:

Nick plays part time PR hound to the media and publishes some huge stuff using PR newswires among the others.

Stories with captivating titles such as:

- Entrepreuneurs want to make $9.3 trillion expect a 0% ROI
- Where is the missing $9.3 trillion
- Why the poor may not be so poor?
- 2 guys in a virtual garage take on World poverty with nothing but a Wiki and a dream.
- A recipe for Changing the world in your spare time:
    o 1 Dead philosopher
    o 1 Noble winning economist
    o $9.3 trillion in dead capital
    o 1 Giant wiki
    o 2 ½ time hackers
.

Untied Nations one visitor at a time

Month	visitors	Contributions	valid entries	Completed indeces
1	3,000	150	75	1
2	4,050	203	101	2
3	5,468	273	137	3
4	7,381	369	185	6
5	9,965	498	249	8
6	13,452	673	336	12
7	18,160	908	454	17
8	24,516	1,226	613	24
9	33,097	1,655	827	33
10	44,681	2,234	1,117	45
11	60,320	3,016	1,508	62
12	81,432	4,072	2,036	85
13	109,933	5,497	2,748	115
14	148,409	7,420	3,710	157
15	200,352	10,018	5,009	212
16	270,475	13,524	6,762	287
17	365,142	18,257	9,129	389
18	492,941	24,647	12,324	526
19	665,471	33,274	16,637	711
20	898,386	44,919	22,460	960
21	1,212,821	60,641	30,321	1,297
22	1,637,308	81,865	40,933	1,752
23	2,210,366	110,518	55,259	2,366
24	2,983,994	149,200	74,600	3,195

Page view growth monthly	35%
Lurker to contributor ratio	20
Good signal %	50%
required entries per index	90

FAQ

What is Untied Nations

A website for publicly compiling and displaying the costs in time and money to get and maintain property rights internationally.

Why do this?

According to Hernando De Soto's estimates there is an estimated USD$9.3 trillion in dead capital in the developing world. This is property in the extra legal sector that is in the hands of the poor but can't be effectively registered, sold, mortgaged, transferred or taxed.

Research indicates that the poor would prefer to be a part of the "formal" economy but usually can't because of poor procedures or procedural implementation. This means the poor in many countries live in extra-legal status with the insecurity of person and assets this entails. This fuels corruption and in some cases localized instability.

How does it Work?

1. Documentation from the grass roots. (field evidence is best)

2. Open method: anyone can contribute (wider voices and awareness)

3. Social comparison peer power: beat the neighbors (index)

4. Solutions better legislation and administration feedback is instant and public, the thesis being property rights are a simple universal service and should be openly benchmarked.

Who does this help?

- Average citizens seeking security of title to property
- Governments (increased tax bases)
- Economic researchers/academics
- Lawyers studying proper procedure within and among regions
- Citizens with net access needing process information
- Legislators looking for procedural benchmarks
- NGO's lobbying for better policy
- Comparative legal scholars and economic researchers

Who works with/for Untied Nations?

2 founders set up the concept and implemented it originally; otherwise it is all volunteer, anyone knowing the processes and realities of pursuing or maintaining property rights in their respective countries.

Where will Untied Nations be based?

Untied Nations is a registered US charity with development efforts going on globally first in South Africa.

How many employees will Untied Nations have at the end of the first year?

At the end of the first year Untied Nations is estimated to have 1-2 full time employees.

When will Untied Nations start having impact?

Tough to say, the impact will be recognized when the "signal to noise" ratio or quality data to bad data contributions settle down and the indices and process mapping offers value. Similar to Wikipedia.org, it will take time to build a stable base of information and then longer for that base to be recognized as a source of legitimate data for various parties to utilize.

I have some cool code/hardware/services/features/money I would like to contribute, who do I speak to?

For code contributions please contact cvs-admin@untied-nations.org for guidelines and access to the source control system.

Do you have a mailing list I can subscribe to?

Most of the real action occurs on the site Wiki but you can register for periodic updates by sending an email with the word 'subscribe' on the first line to majordomo@untied-nations.org

Does Untied Nations have a RSS feed?

Yes. http://www.untied-nations.org/rss

You have written some very nice software, can my Company/Non-profit Organization make use of it

Yes, please do. The Untied Nations software is licensed under the terms of the LGPL and is available for download at http://sourceforge.net/untiednations. If you would like to discuss a support or consultation arrangement with Untied Nations please contact us at: sales@untied-nations.org

I am having problems registering a property in my country, can you help me or refer me to someone who can help me?

Unfortunately Untied Nations does not have the resources to offer direct assistance to individuals in need. The information on this site is only offered with the humble hope that it might bring a bit of clarity to a very complex legal environment. Although the fees may seem excessive you will usually find that the services of an experienced lawyer to be well worth the investment.

I tried to use the information on your site to register my property and ended up having it confiscated. Can I sue you?

Please don't. Despite variations in local legal custom we are all ultimately wholly responsible for the results of our own actions. Please read our liability disclaimer if you do not understand this.
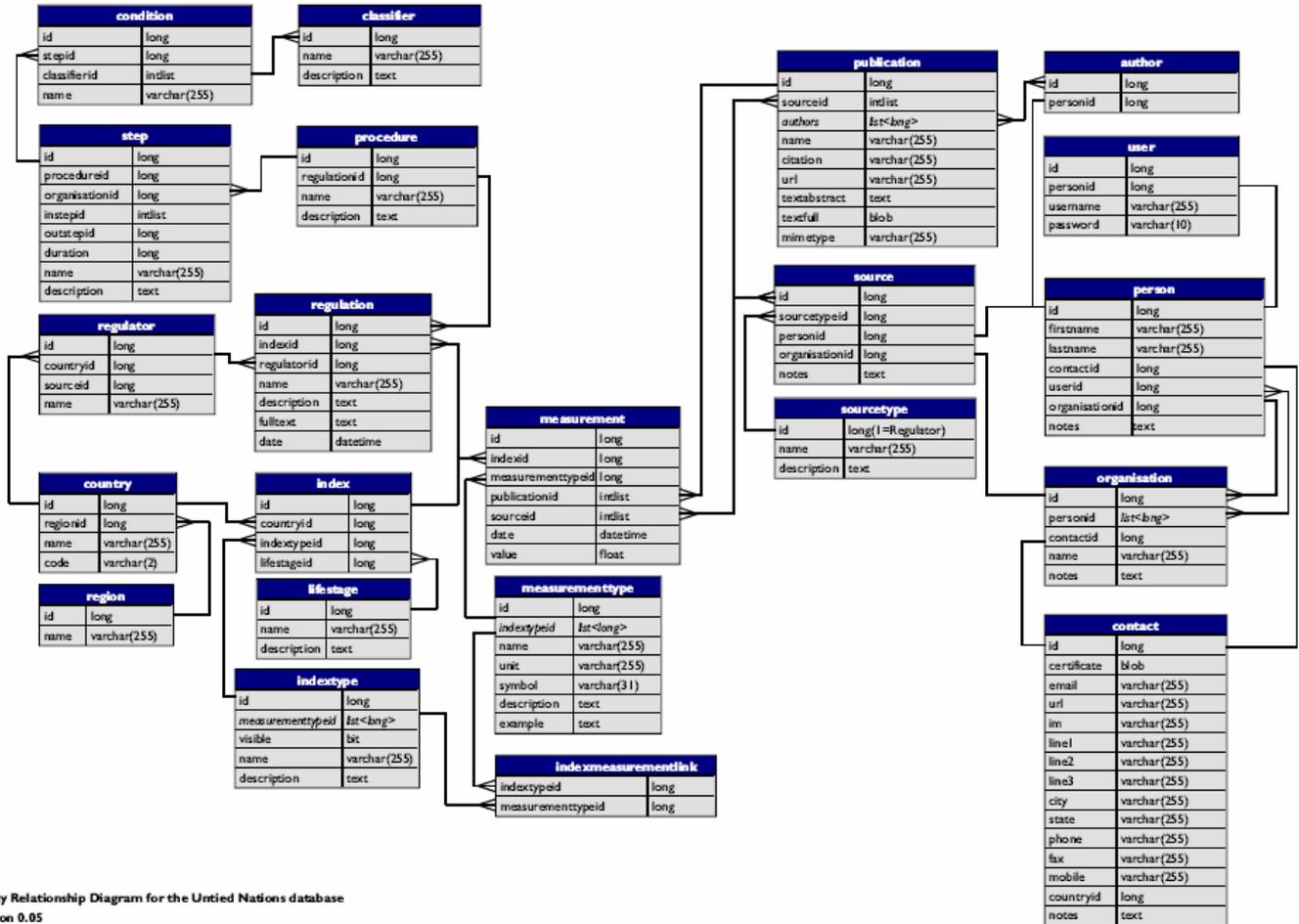
The government has stolen all our land, how can you support such a system ?

We do not support any government; rather we hope that you can use this information to work with your government in making sure that the correct person has been registered as the owner. Organizations that may be sympathetic to your cause include: http://www.survival-international.org.

APPENDIX

Progress to date.

condition

id	long
stepid	long
classifierid	intlist
name	varchar(255)

classifier

id	long
name	varchar(255)
description	text

step

id	long
procedureid	long
organisationid	long
instepid	intlist
outstepid	long
duration	long
name	varchar(255)
description	text

procedure

id	long
regulationid	long
name	varchar(255)
description	text

regulator

id	long
countryid	long
sourceid	long
name	varchar(255)

regulation

id	long
indexid	long
regulatorid	long
name	varchar(255)
description	text
fulltext	text
date	datetime

country

id	long
regionid	long
name	varchar(255)
code	varchar(2)

index

id	long
countryid	long
indextypeid	long
lifestageid	long

region

id	long
name	varchar(255)

lifestage

id	long
name	varchar(255)
description	text

indextype

id	long
measurementtypeid	list<long>
visible	bit
name	varchar(255)
description	text

measurement

id	long
indexid	long
measurementtypeid	long
publicationid	intlist
sourceid	intlist
date	datetime
value	float

measurementtype

id	long
indextypeid	list<long>
name	varchar(255)
unit	varchar(255)
symbol	varchar(31)
description	text
example	text

indexmeasurementlink

indextypeid	long
measurementtypeid	long

publication

id	long
sourceid	intlist
authors	list<long>
name	varchar(255)
citation	varchar(255)
url	varchar(255)
textabstract	text
textfull	blob
mimetype	varchar(255)

source

id	long
sourcetypeid	long
personid	long
organisationid	long
notes	text

sourcetype

id	long(1=Regulator)
name	varchar(255)
description	text

author

id	long
personid	long

user

id	long
personid	long
username	varchar(255)
password	varchar(10)

person

id	long
firstname	varchar(255)
lastname	varchar(255)
contactid	long
userid	long
organisationid	long
notes	text

organisation

id	long
personid	list<long>
contactid	long
name	varchar(255)
notes	text

contact

id	long
certificate	blob
email	varchar(255)
url	varchar(255)
im	varchar(255)
line1	varchar(255)
line2	varchar(255)
line3	varchar(255)
city	varchar(255)
state	varchar(255)
phone	varchar(255)
fax	varchar(255)
mobile	varchar(255)
countryid	long
notes	text

Entity Relationship Diagram for the Untied Nations database
version 0.05

Development within.

www.untied-nations.org

Should we attain some success (measured in terms of structural changes as a result of the information developed by Untied Nations), it is intended to scale the software, methodology and philosophy to a general purpose environment which can serve as a tool for practitioners engaged in human development.

We hope that some problems which have resisted solutions may be overcome through the new opportunities created by technology.

Further human development

Economic development

Stability & security

Efficient Effective Property rights