[This document is also available as a webpage:]

We have created a complete parallel Libre-Halaal Digital Ecosystem to stand against and in contrast to the existing Proprietary American Digital Ecosystem.

The umbrella title that we have chosen for our work is:

> **The Libre-Halaal ByStar Digital Ecosystem**
> **A Unified and Non-Proprietary Model For Autonomous Internet Services**
> **A Moral Alternative To The Proprietary American Digital Ecosystem**

By "Digital Ecosystem", we mean the whole thing, including inter-related software, systems, services, content and societal frameworks. The integrated facilities of ByStar are intended to be used by a very large segment of population on this planet. The scope of these integrated offerings is vast – paralleling most of what exists in the proprietary Internet today.

Preservation of ByStar user's autonomy, privacy and freedom are the primary factors driving design of ByStar Services. Health of society is our goal. The correct (halaal) manner-of-existence of software and correct manner-of-existence of internet application services are our focus.

By* has enormous implications. The Libre-Halaal Services development model, and the By* unified services model, can transform the entire global Internet completely. They can transform it from its limited, proprietary, *ad hoc* incarnation of today into something far more powerful.

But ambitious though it may be, this initiative is fully thought out and fully documented.

To put it in its intended widespread usage, we also need your participation (our fellow engineers, journalists, financiers, academics, government representatives, ethicists and users).

Here we provide a reading road map for this vast picture.

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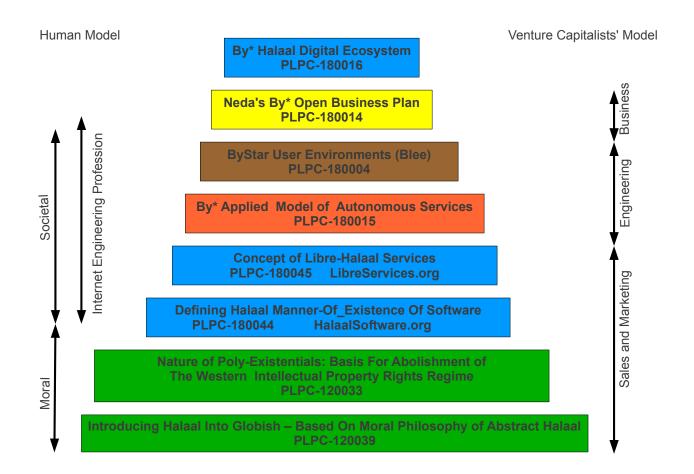
1 The ByStar Full Picture – Reading Road Map

Figure 1: Reading Roadmap For The Libre-Halaal ByStar Digital Ecosystem

In ByStar Publications List: http://www.by-star.net/bxPublications
we provide pointers to ByStar related articles. These documents evolve as ByStar evolves, and the publications list will be kept up-to-date. The ByStar publications list is structured primarily for reference. Below we provide a description of how these documents collectively draw a comprehensive picture.

The big ByStar picture is shown in Figure 1. Each of the layers in this figure represents either a conceptual definition (shown in blue), or an actual software/service implementation (shown in orange). Each layer builds on the layers beneath.

The best way of getting oriented to the full ByStar picture is to start with the top layer document, titled:

The Libre-Halaal ByStar Digital Ecosystem
A Unified and Non–Proprietary Model For Autonomous Internet Services
A Moral Alternative To The Proprietary American Digital Ecosystem
http://www.by-star.net/PLPC/180016 — [6]

PLPC-180016 describes the totality of Libre-Halaal software, Libre-Halaal internet services, content generation and content publication facilities and societal frameworks that are designed for preservation of ByStar user's autonomy, privacy, freedom and health of society.

The layers in Figure 1 are color coded. Each of the layers are either:

A Conceptual Layer. Representing concepts. Layers 1,2,3,4,7 and 8 are in Green, Blue and Yellow.

A Tangible Layer. Representing software/service implementations. Layers 5 and 6 are in Orange and Brown.

The tangible layers are bound by the conceptual layers underneath them and receive legitimacy from those concepts.

The conceptual layers are validated by the tangible layers.

The green layers (1 and 2) at the bottom are philosophical, moral and societal. Their scope is wider than the moral digital ecosystem that we are after. Generally speaking, these are not the domain of engineers. They are the domain of ethicists, philosophers and sociologists.

The blue layers (3, 4 and 8) are philosophical, moral, societal, social and engineering aspects of digital ecosystems that require direct involvement of engineers and the engineering profession. The yellow layer (7) addresses economics and business dimensions of ByStar.

The orange/brown layers (5 and 6) are engineering constructs. They are in-use software and in-use internet application services.

The gigantic picture we have drawn in Figure 1 is a blueprint. It represents a complete framework for collaborative work towards an alternative to the current proprietary digital ecosystem. By aligning ourselves with the natural forces and dynamics of poly-existentials, and by means of large-scale unrestricted collaboration, we can achieve this.

Starting from the lowest layer, we now provide a brief descriotion of each layer and its associated documents.

1.1 Layer 1: Introducing Halaal and Haraam into Globish

The lowest layer (Layer 1) is a general conceptual layer, presented in green in Figure 1.

Our focus as engineers, is to build the right thing.

We introduce the sensitive and potent word "Halaal." We define this in the document titled:

> **Introducing Halaal and Haraam into Globish**
> **Based on Moral Philosophy of Abstract Halaal**
> معرفیِ حلال و حرام به بقیهی دنیا
> http://www.by-star.net/PLPC/120039 — [3]

We precisely define what we mean by "Halaal" and "Haraam" and the explicit context and scope of the "Libre-Halaal" label. We use the word Halaal carefully and consistently to emphasize that our work is anchored in morality.

Briefly, philosophical halaal is "manifestation" of "moral sensibilities" relevant to a specific topic where "the set of actions" map to "right." And, philosophical haraam is "manifestation" of "moral sensibilities" relevant to a specific topic where "the set of actions" map to "wrong."

1.1.1 The Libre-Halaal Label

In the "Libre-Halaal" label, Libre indicates that:

1. The scope of consideration of Halaal is manner-of-existence of poly-existentials.

2. We reject the Western IPR regime. That the natural right to copy and the natural right to apply knowledge are the basis of our ideology.

Halaal indicates that:

1. We are rooted in philosphy and morality — Not just economics.

2. For each form of poly-existential, the manner-of-existence that permit Professions to safeguard society and humanity are the Halaal manner-of-existence for that poly-existential.

1.2 Layer 2: Nature Of Poly-Existentials: Basis For Abolishment Of Western IPR Regime

Layer 2 is a general conceptual layer, presented in green in Figure 1.

Central to our approach is full rejection of the Western so-called Intellectual Property Rights regime of copyright and patents.

We present our rationale for this conclusion in:

The Nature of Poly-Existentials:
Basis for Abolishment of The Western So-Called Intellectual Property Rights Regime
http://www.by-star.net/PLPC/120033 — [10]

In that paper we analyze and discredit the Western Intellectual Property Rights regime based on the inherent nature of what it seeks to control and restrict – poly-existentials: all that can be learned and remembered and all that is digital.

The Western intellectual property rights regime is in conflict with nature, it does not serve the ideal intended purpose of societal regulations, i.e. to balance rights equitably among conflicting constituencies. On the contrary, it has the effect of enriching a minority of powerful vested interests, to the very great detriment of society at large. The detrimental effects include the obstruction of engineering creativity, a distortion of the competitive business environment, and denial of the benefits thereof to the public.

Many societies fully reject the basic concept of patents and copyright. Yet, the Western Intellectual Property ownership regime is portrayed by Westerners as universal and global. Since poly-existence and digital entities are inherently not restricted by borders, the nature of global Internet demands rejection of the Western Intellectual Property ownership regime.

1.3 Layer 3: Libre-Halaal Software – Halaal Manner-Of-Existence Of Software

Layer 3 is a societal and engineering profession conceptual layer, presented in blue in Figure 1.

In a document titled:

Libre-Halaal Software
Defining Halaal Manner-Of-Existence Of Software
http://www.by-star.net/PLPC/180044 — [9]

We focus on the correct manner-of-existence of software.

Our definitions for Halaal manner-of-existence of software and Internet service are concrete and precise. These definitions are similar to the "Free Software" and "Open Source" definitions but are distinct. As engineers, our legitimacy for addressing this topic is our responsibility to the engineering profession and the engineering profession's responsibility to society.

We have created the http://www.HalaalSoftware.org site for further cultivation of the concept of Libre-Halaal Software.

1.4   Layer 4: Libre-Halaal Services – Halaal Manner-Of-Existence Of Internet Services

Layer 4 is a societal and engineering profession conceptual layer, presented in blue in Figure 1.

We then introduce the concept of "Libre-Halaal Services" and describe the model for guaranteeing internal transparency of Internet application services in a collaborative environment.

In the document titled:

Libre-Halaal Services:
Defining Halaal Manner-Of-Existence Of Internet Application Services
A non-proprietary model for delivery of Internet services
http://www.by-star.net/PLPC/180045 — [8]

We have formulated a radically new, non-proprietary model for delivery of Internet services.

Libre Services are an extension of the principles of Libre-Halaal software into the Internet services domain. They are Internet services that can be freely copied and reused by anyone. The Libre Services model exists in relation to the proprietary Internet services model of Apple, MSN, Yahoo and Google, in an analogous way to how GNU/Linux exists in relation to Microsoft Windows.

We have created the http://www.LibreServices.org site for further cultivation of the concept of Libre-Halaal Services.

1.5   Layer 5: ByStar Applied Model Of Federations of Autonomous Libre-Halaal Services

Layer 5 is a tangible layer, presented in orange in Figure 1. It refers to the actual By* internet application services.

The Libre-Halaal model is not just theory. We have built a set of real, working, in-use Libre Services. We call these the By* Federation of Autonomous Libre Services. By* (pronounced "by-star") is a unified services model, unifying and making consistent a large number of services that currently exist in functional isolation. It is a coherent, integrated family of services, providing the user with a comprehensive, all-encompassing Internet experience.

In the document titled:

The ByStar Applied Model
Of Federations of Autonomous Libre-Halaal Services
http://www.by-star.net/PLPC/180015 — [4]

We provide an overview of the model and design of ByStar Federation of Autonomous Services.

The By* services are based on 100% Libre-Halaal software and patent-free protocols, and are thus completely transparent and reproducible by anyone. They are a communal public resource, not owned by anyone, freely available for use by society at large. Their widespread deployment and usage is in the direct interests of the general public welfare.

1.6 Layer 6: ByStar Convivial User Environments – Blee and BxGnome

Layer 6 is a tangible layer, presented in orange in Figure 1. It refers to the actual software of user environments.

Users experience ByStar Services through ByStar User Environments.

ByStar services can be accessed in a variety of ways. In addition to the traditional browser based model, ByStar provides for rich and deep Software-Service integration.

Initially we are focusing on two convivial, [2], User Environments for ByStar.

Blee (ByStar Libre Emacs Environment) is a layer above Emacs that integrates ByStar platform (Debian GNU/Linux) capabilities into emacs and provides for integration with ByStar Services.

An overview of this User Environment is provided in:

Blee and BxGnome:
ByStar Software-Service Continuum Based Convivial User Environments
http://www.by-star.net/PLPC/180004 — [5]

The deep integration between Libre-Halaal Software and Libre-Halaal Internet Services creates a Libre-Halaal Software-Service continuum, far superior in capability to any Proprietary/Haraam Software/Service combination.

1.7 Layer 7: ByStar Economics – Neda's ByStar Open Business Plan

Layer 7 is an economics and business conceptual layer, presented in yellow in Figure 1. It is in the form of an in use open business plan.

The economic and business consequences of Libre-Halaal software and services are a fundamental shift of business operations from the **for-profit, proprietary quadrant** into the **for-profit, non-proprietary quadrant**.

In the document titled:

The For-Profit and Non-Proprietary Quadrant
http://www.by-star.net/PLPC/120042 — [1]

We provide more details on this topic.

The halaal manner-of-existence of software creates a powerful generative development model for halaal internet services. This generative model is absent from proprietary/haraam internet services. Thus halaal internet services have a major advantage and can compete directly with proprietary/haraam Internet Services in terms of development.

The basic recurring revenue models for halaal internet service providers are essentially the same as for haraam internet Service providers. Thus in terms of revenue generation, halaal and haraam services are on an equal footing.

As part of our responsibility to create a viable implementation construct we have fully analyzed the business dimension, and we have formulated the business model in the form of an Open Business Plan, titled:

The Libre-Halaal ByStar Open Business Plan
An Inversion to the Proprietary Internet Services Model
Neda Communication Inc.'s Open Business Plan
http://www.by-star.net/PLPC/180014 — [7]
http://www.neda.com/StrategicVision/BusinessPlan

ByStar open business plan is available in 3 forms; the Condensed Summary (about 12 pages), the Executive Summary (about 15 additional pages) and the full plan (about 85 pages).

1.8   Layer 8: Overview Of The Libre-Halaal ByStar Digital Ecosystem

Layer 8 is a conceptual layer, presented in blue in Figure 1.

The totality of halaal software, halaal Internet services, content generation and content publication facilities and societal frameworks that we described, forms the "The Libre-Halaal ByStar Digital Ecosystem".

The description of the overarching model and structure of ByStar digital ecosystem is presented in:

> **The Libre-Halaal ByStar Digital Ecosystem**
> **A Unified and Non-Proprietary Model For Autonomous Internet Services**
> **A Moral Alternative To The Proprietary American Digital Ecosystem**
> http://www.by-star.net/PLPC/180016 — [6]

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