

[This document is also available as a webpage: <http://www.by-star.net/bxRoadmap>]

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

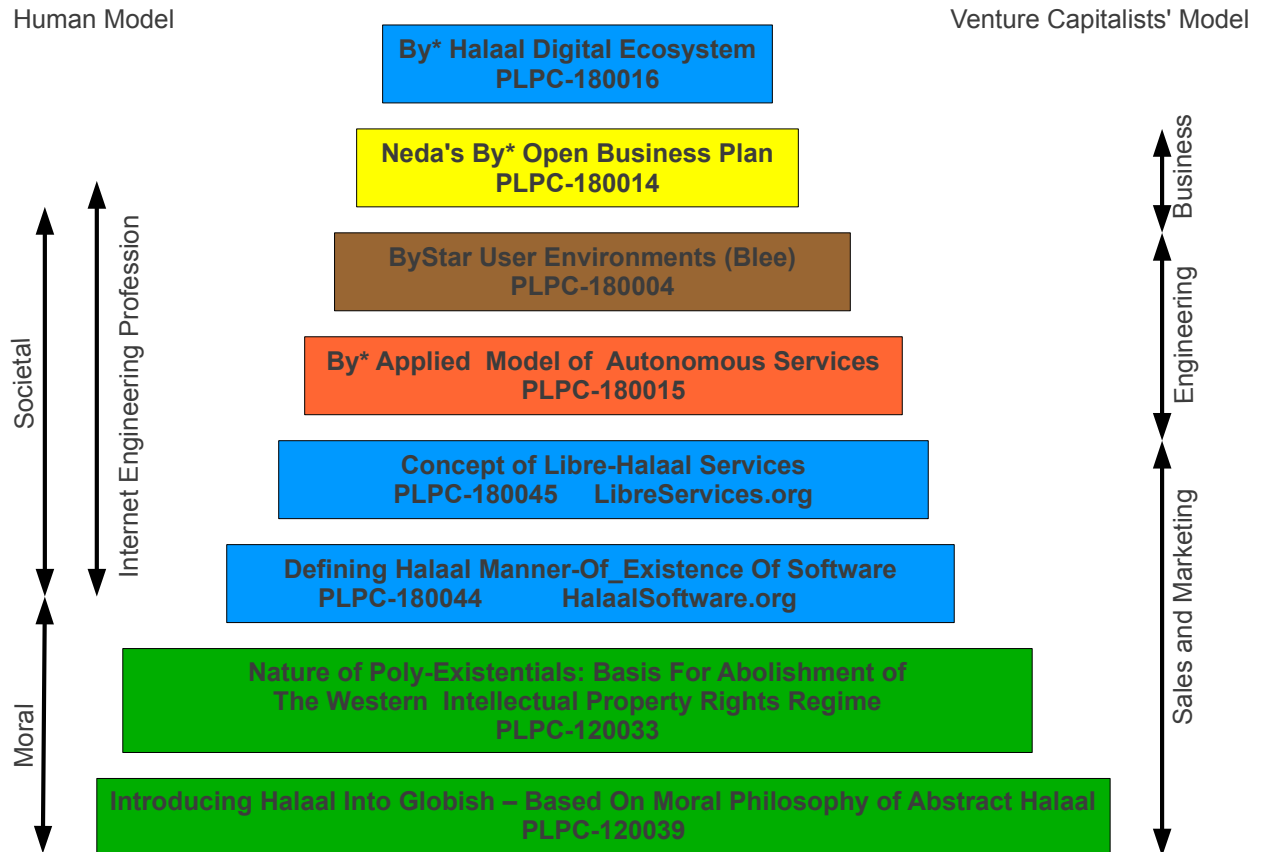


Figure 1: Reading Roadmap For The Libre-Halaal ByStar Digital Ecosystem

In ByStar Publications List:
<http://www.by-star.net/bxPublications>

we provide pointers to ByStar related articles. These documents evolve as ByStar evolves. 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 to start studying 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>

It 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.

In Figure 1, we present a multi-disciplinary roadmap in form of layers – these address moral, legal, societal, engineering, economic and business dimensions. Each layer has a document that addresses it – you can click on the PLPC numbers and obtain the document. Each layer builds on those beneath.

At the lowest layer lies moral and societal questions of right and wrong (halaal and haraam). Included in these layers is also the question of money, business and economics (in the form of an open business plan). In other words, we are saying that when it comes to something as important as Internet application services, we should not drive it purely based on economics and profit. This is in stark contrast to the purely economically driven proprietary American digital ecosystem.

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) is economics and business.

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. And we can collectively save humanity.

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

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 do the right thing.

We emphasize that our model is based on morality, ethics, philosophy, the health of society and sanctity of individual's autonomy. This is all very unlike the model of proprietary American digital ecosystem which is purely based on economics – and full of externalities.

In an essay titled:

**Introducing Halaal and Haraam into Globish
Based on Moral Philosophy of Abstract Halaal**

معرفي حلال و حرام به بقيه ي دنيا

<http://www.by-star.net/PLPC/120039>

we formally introduce the extremely potent words: “Halaal” and “Haraam”.

We use the word Halaal carefully and consistently to emphasize that our work is anchored in morality.

1.2 Layer 2: Nature Of Poly-Existentials

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>

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 is digital and all that can be learned and remembered.

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.

Under Western dominance, the most basic moral underpinning of poly-existentials, the so-called “Intellectual Property Rights,” is haraam. Based on economic values and economic power, Westerners are imposing their self-serving and misguided ownership models for copyright and patents onto the rest of the world.

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.

We have chosen the word “Halaal” as the main qualifier for our software and services. Through this word, we want to focus on morality and ethics of the manner-of-existence of software and the manner-of-existence of Internet services.

Note that we are applying morality and ethics here only to the manner-of-existence of software and Internet services. And not to functionality of software and Internet services. And not to usage of software and Internet services.

So, anytime that we speak of “Halaal Software” and “Halaal Internet Services” we mean “Halaal Manner-Of-Existence Of Software” and “Halaal Manner-Of-Existence Of Internet Application Services”.

We believe that label of “Halaal Software” is far better than “Free Software” or “Open-Source Software” or FOSS (Free and Open-Source Software), etc. In order to make it clear to our FOSS brothers and sisters that we are on the same side, we sometimes expand the label to become “Libre-Halaal”.

We focus on the question of correct manner-of-existence of software and the correct manner-of-existence of Internet Application Services in a document titled:

**Defining Halaal Manner-Of-Existence Of Software
And Defining Halaal Manner-Of-Existence Of Internet Services**
<http://www.by-star.net/PLPC/120041>

As engineers, our legitimacy for addressing this topic is our responsibility to the engineering profession and the engineering profession’s responsibility to society. Our definitions for halaal manner-of-existence of software and Internet service are concrete and precise.

1.4 Layer 4: Libre-Halaal Services – Concept Of Libre Services

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

We have formulated a radically new, non-proprietary model for delivery of Internet services. In the document titled:

**Libre Services:
A non-proprietary model for delivery of Internet services**
<http://www.by-star.net/PLPC/100101>

we introduce the Libre Services model.

Libre Services are an extension of the principles of free software into the Internet services domain. They are Internet services that can be freely copied and reused by anyone. Any company or organization can reproduce and host any Libre Service, either for its own use, or for commercial or non-commercial delivery to others. 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.

1.5 Layer 5: ByStar Federation of Autonomous Libre 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:

**ByStar Federation of Autonomous Libre Services
Overview of Concepts and Models**
<http://www.by-star.net/PLPC/180015>

we introduce ByStar services.

The By* services are based on 100% halaal/libre 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.

ByStar services are structured in two layers. (1) Autonomous Libre Services and (2) Federated Libre Services.

1.5.1 Autonomous Libre Services

An Autonomous Libre Services is a Libre Service where the primary user of the service is the “owner” of the service. The concept of Autonomous Libre Services focuses on preserving privacy by providing control over information to users with safe guards of functional transparency, information portability and non-retention controls. Formal definitions are provided in [Defining Halaal Manner-Of-Existence Of Software – And Defining Halaal Internet Application Services](#)

The ByStar Autonomous Libre Services presently includes ByName, ByAlias, ByAuthor, ByAlias, ByMemory, BySMB/ForSMB, ByFamily, ByNumber, ByWhere and ByEvent.

1.5.2 Federated Libre Services

The concept of Federated Libre Services is layered above Autonomous Libre Services and focuses on interactions amongst Autonomous Libre Services and facilitation of information aggregation amongst Libre Services.

The ByStar Federated Services presently includes: ByContent, ByTopic, ByInteraction, ByLookup, ByHookup, BySource and ByBinary.

The ByStar Federation is vast in scope. Its basic structures are in place and many services are built or are partially built. The Libre Services collaborative framework allows for ByStar to grow dynamically.

1.6 Layer 6: (Blee) The ByStar Libre Emacs Environment

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

The first User Environment for ByStar Libre Services is called: “Blee”. An overview of this User Environment is provided in:

**Blee – ByStar Libre Emacs Environment:
A User Environment For The Libre-Halaal ByStar Digital Ecosystem**
<http://www.by-star.net/PLPC/180004>

Blee is a layer above emacs that integrates GNU/Linux capabilities into emacs and provides for integration with ByStar Services.

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 halaal software and services are a fundamental shift of business operations from the **for-profit, proprietary quadrant** into **for-profit, non-proprietary quadrant**.

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 By* Federation of Autonomous Libre Services
An Inversion to the Proprietary Internet Services Model
An Open Business Plan**

<http://www.by-star.net/PLPC/180014> – [1]

<http://www.neda.com/StrategicVision/BusinessPlan>

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 our digital ecosystem is presented in:

**The Libre-Halaal ByStar Digital Ecosystem
A Moral Alternative To The Proprietary American Digital Ecosystem**

<http://www.by-star.net/PLPC/180016>

References

- [1] et al. ” Banan. ” the libre/halaal bystar open business plan an inversion to proprietary internet services model neda communication inc.’s open business plan ”. Permanent Libre Published Content ”180014”, Autonomously Self-Published, ”September” 2012. <http://www.persoarabic.org/PLPC/180014>.