

Alejandro Madariaga Navarrete



Reference of some of my projects in the last 20 years

IT Project Management Experience

Section 1

2000 - 2010

Section 2

2011 - 2020

Section 3

2021 – 2024

Leading IT specialist with experience in structuring and managing IT business projects including Web, Mobile, Artificial Intelligence and Internet of Things solutions

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The projects in the next slides used a mix of tools and methodologies that i have used such as:

PM Software Tools

To control and monitoring progress of any of the projects I use one of the best and robust PM software in the world:

Jira, **Basecamp** and **Assana** are other tools I know well.



Extreme Programming (XP)

One of the most succesfull agil software development metohodology. It is useful in small or large scale projects and allow flexibility, continuos following up to the development team and high communication with all actors involved in a Project balancing Cost, Time, Quality and Scope. I used to adapt XP to IT **Moprosoft** project development standards.

Scrum

I used Scrum as an altertantine in some projects of medium to large term duration. My function was Scrum Master with a large group of Scrum Owners.

Git / GitLab

Version control and collaborative software for projects. Bug tracking and code documentation



Design Thinking

Most recently team work guidelines to align people to a business and allow them to contribute with ideas, solutions or alternatives to specific problems or even create an innovations

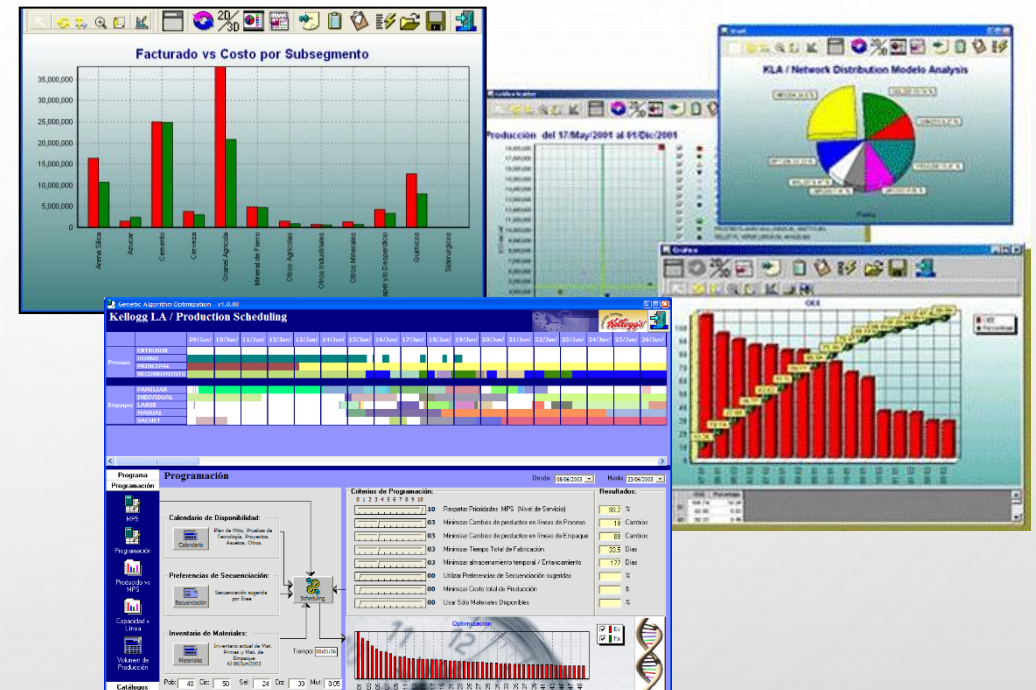
Alejandro Madariaga Navarrete



IT Project Management Experience

2000 - 2010

AI and IOT Windows based tailor made software for large Industrial and Logistic companies

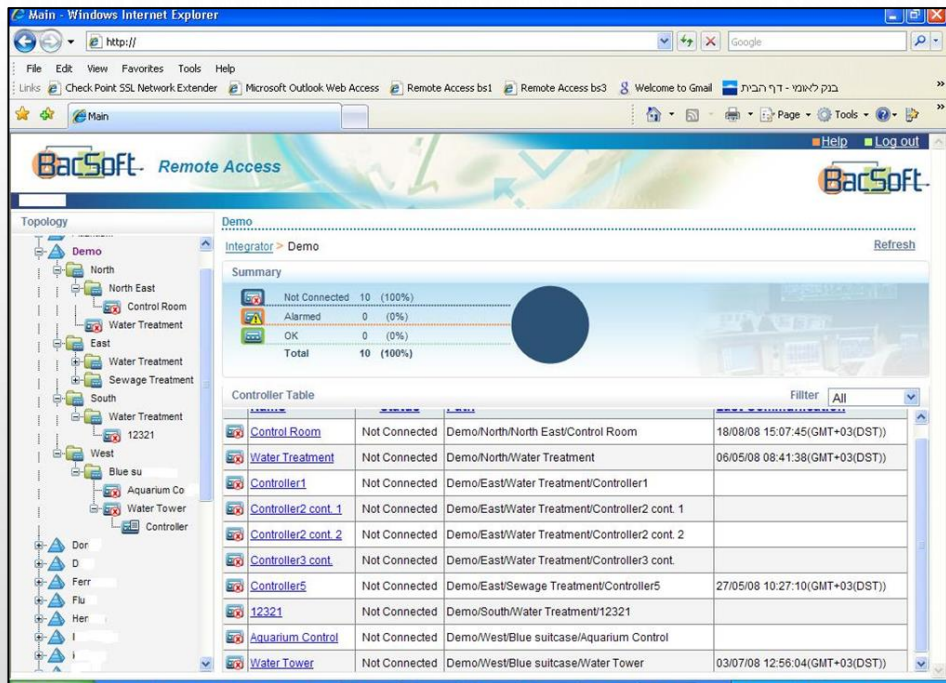


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Corporate implementation of a hundred IOT devices taking information for their AEI computer systems and transferring data via 2G cellular network to a central monitoring facility in CDMX

The project produced savings in the cellular lines invoice for AEI equipment in about 90% and got a ROI of 4 months



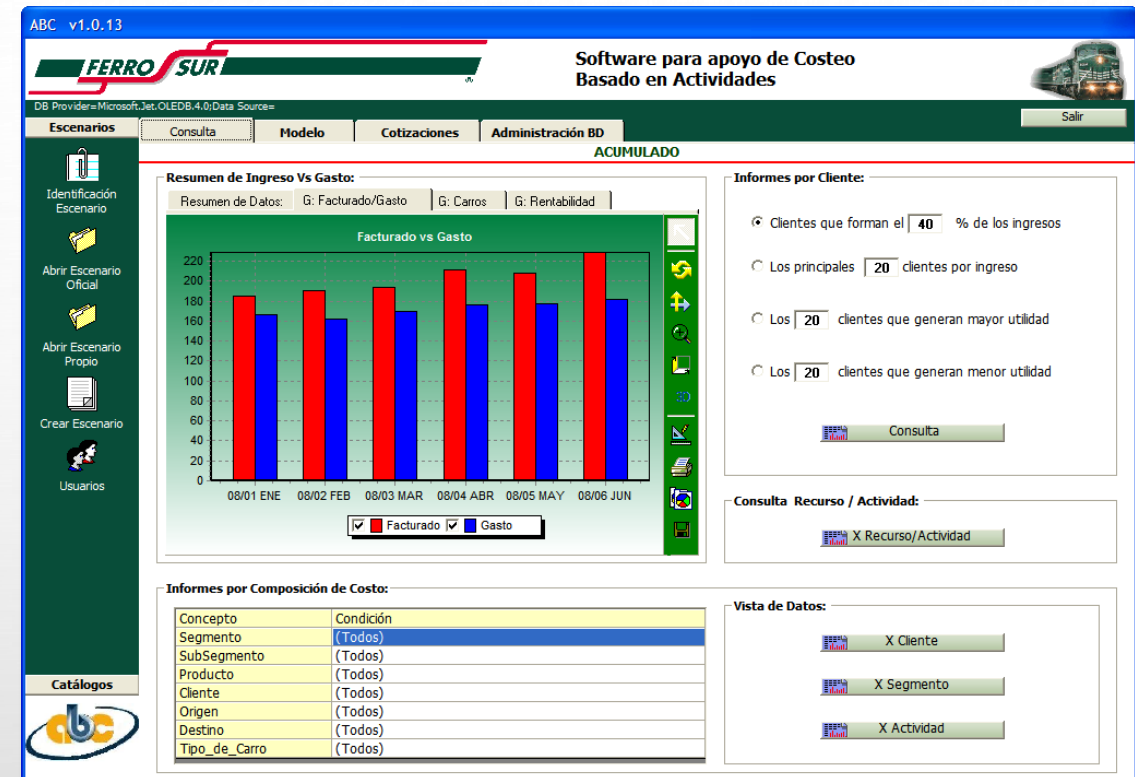
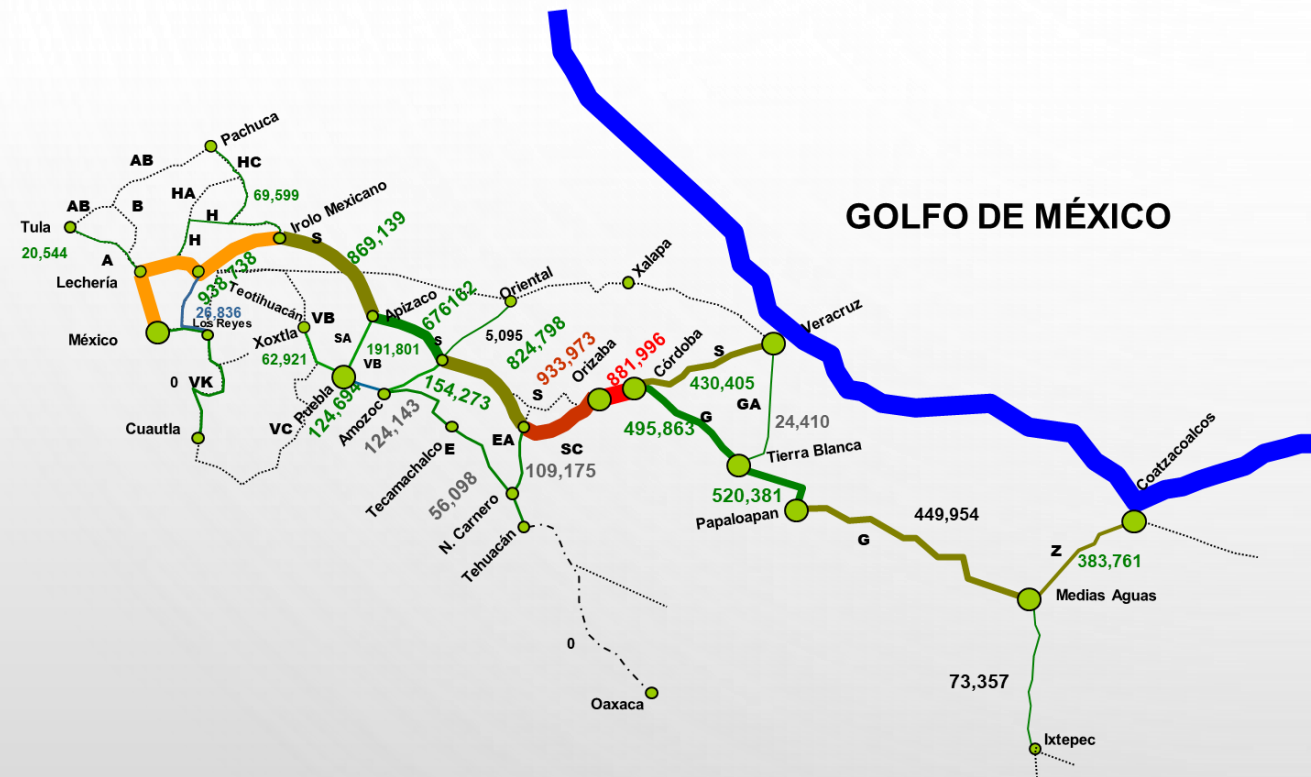
Technology: Windows, Visual Basic, IOT
DB Mgr: SQL Server
PM tools: BaseCamp Software, Scrum

Corporate analysis and implementation of a costing systems that allowed Ferrosur to align the cost criteria for all their services

The system changed a lot the traditional cost assignments for their final quotes for their customers. They changed the way they were working and improved the business significantly



Technology: Windows, Visual Basic, ABC Costing
DB Mgr: SQL Server
PM tools: BaseCamp Software, Scrum



Kellogg Latin America OEE system metric

Standard system at all LA Kellogg manufacturing plants including

1. México (3 facilities)
2. Guatemala
3. Colombia
4. Venezuela
5. Brazil
6. Argentina

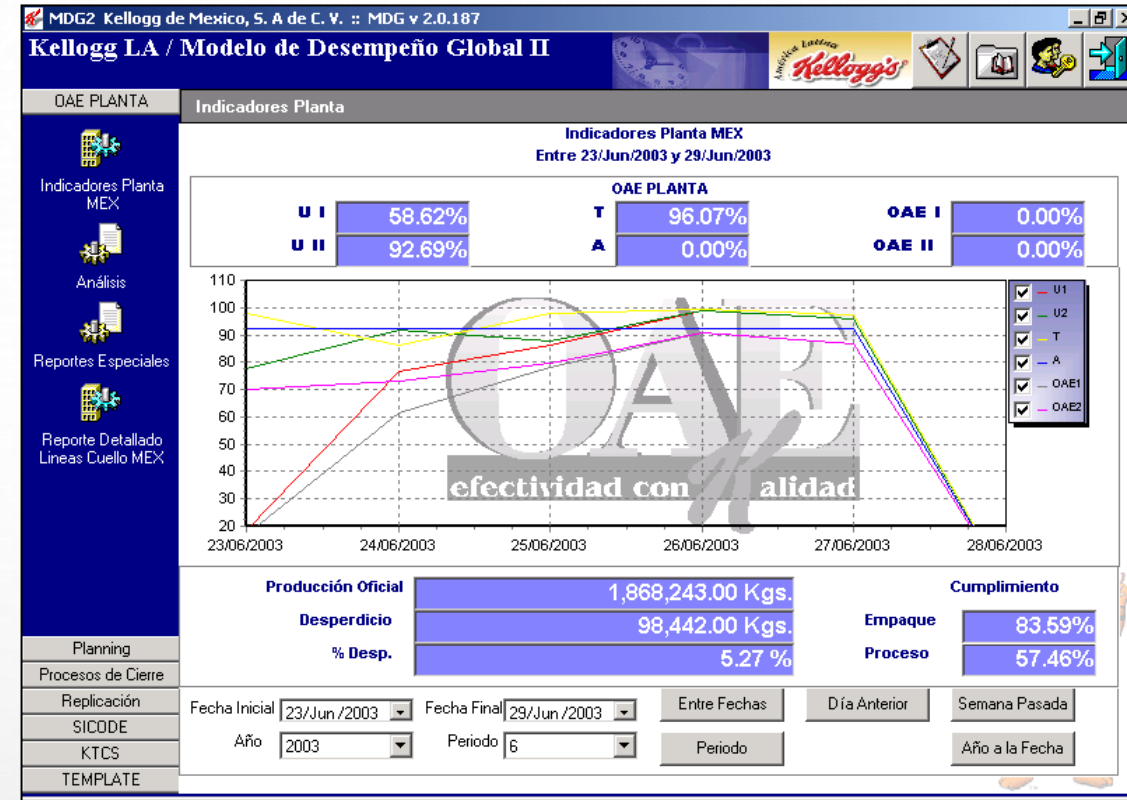


Productos Kellogg de Venezuela / Catálogo (61)

VOLUMEN_DE_PRODUCCION_X_DIA

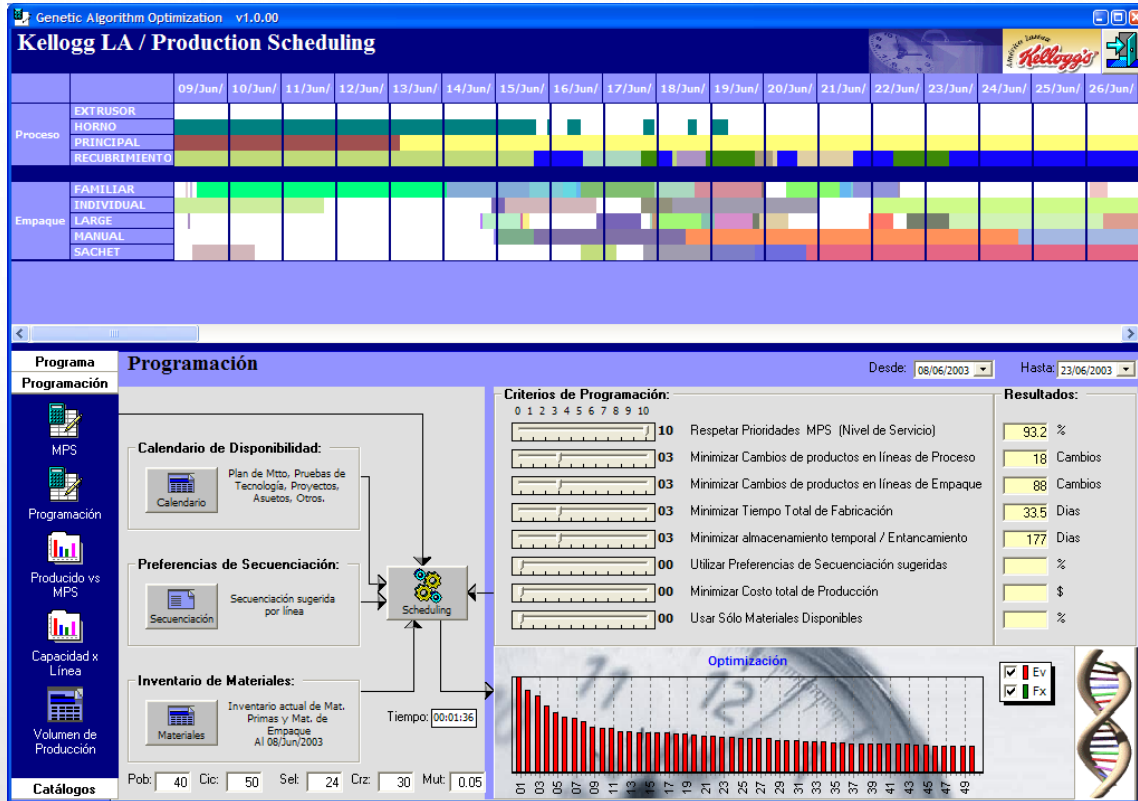
ITEM	DESCRIPCION	FECHA	KILOS	CAJAS
000253-000	CF 12x600g VEN	05/01/2005	12,425	1,726
000253-000	CF 12x600g VEN	06/01/2005	42,600	5,917
000253-000	CF 12x600g VEN	07/01/2005	1,170	163
000601-000	Froot Loops 12k Bulk VEN	05/01/2005	4,653	388
000601-000	Froot Loops 12k Bulk VEN	06/01/2005	3,490	291
000601-000	Froot Loops 12k Bulk VEN	08/01/2005	650	54
000601-000	Froot Loops 12k Bulk VEN	09/01/2005	6,269	522
000601-000	Froot Loops 12k Bulk VEN	10/01/2005	8,359	697
000601-000	Froot Loops 12k Bulk VEN	11/01/2005	3,135	261
000601-000	Froot Loops 12k Bulk VEN	30/01/2005	4,476	373
000601-000	Froot Loops 12k Bulk VEN	31/01/2005	4,671	389
000601-000	Froot Loops 12k Bulk VEN	01/02/2005	4,671	389
000601-000	Froot Loops 12k Bulk VEN	02/02/2005	4,671	389
000601-000	Froot Loops 12k Bulk VEN	03/02/2005	4,671	389
000601-000	Froot Loops 12k Bulk VEN	04/02/2005	849	71
000602-000	CF 24x200g VEN	07/01/2005	26,917	5,608
000602-000	CF 24x200g VEN	08/01/2005	7,122	1,484
000602-000	CF 24x200g VEN	12/01/2005	25,275	5,266
000602-000	CF 24x200g VEN	13/01/2005	6,255	1,303

Registro: 1 de 374



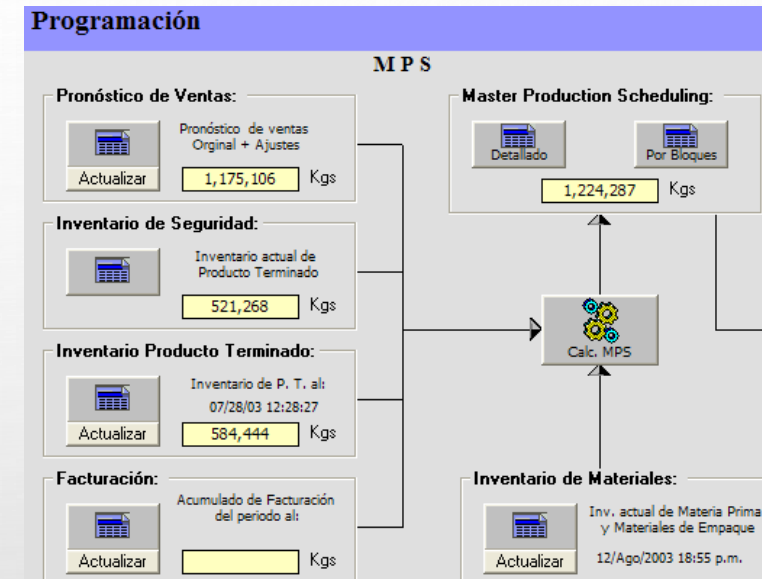
Technology: Windows, Visual Basic, OEE Measurement
DB Mgr: SQL Server
PM tools: BaseCamp Software, Scrum

Intelligent system for simulation and generation of final scheduling sequences for all manufacturing production lines



Standard system at all LA Kellogg manufacturing plants including:

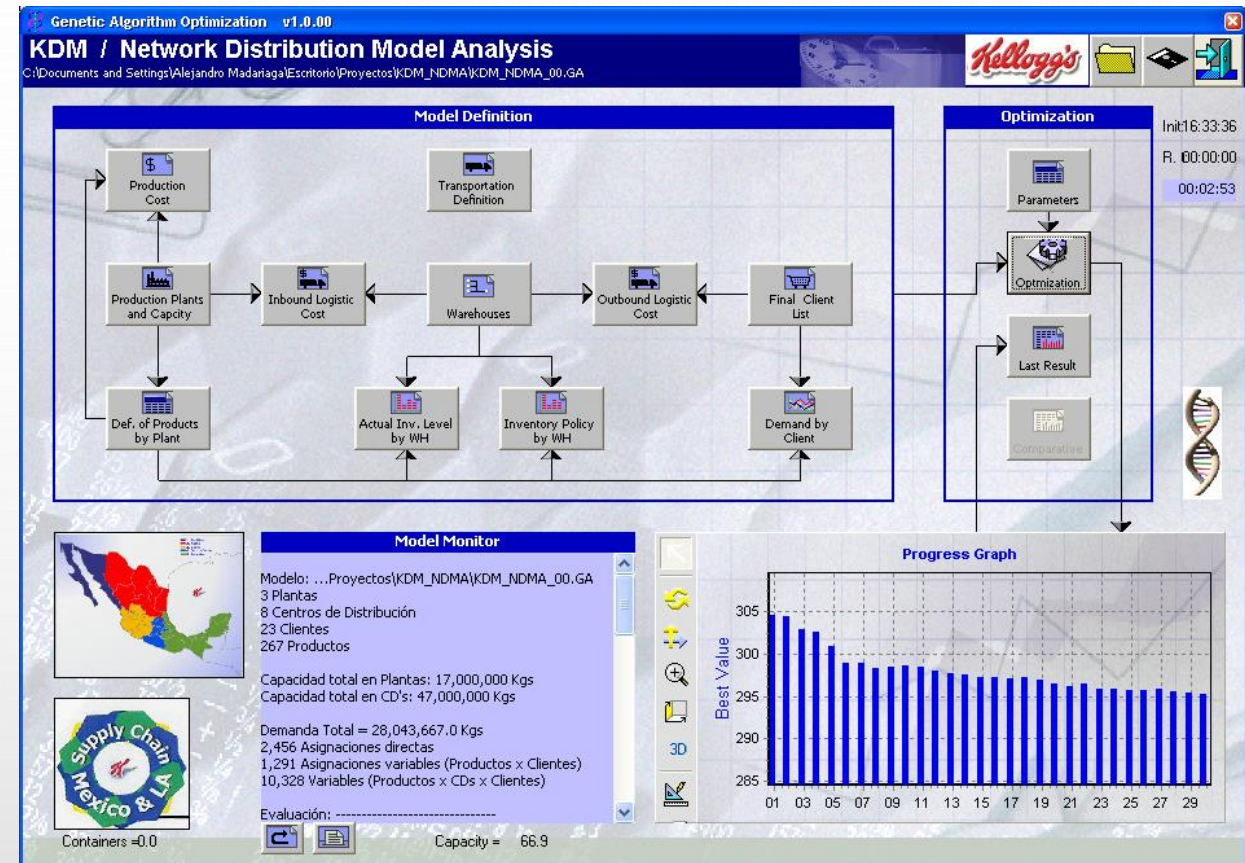
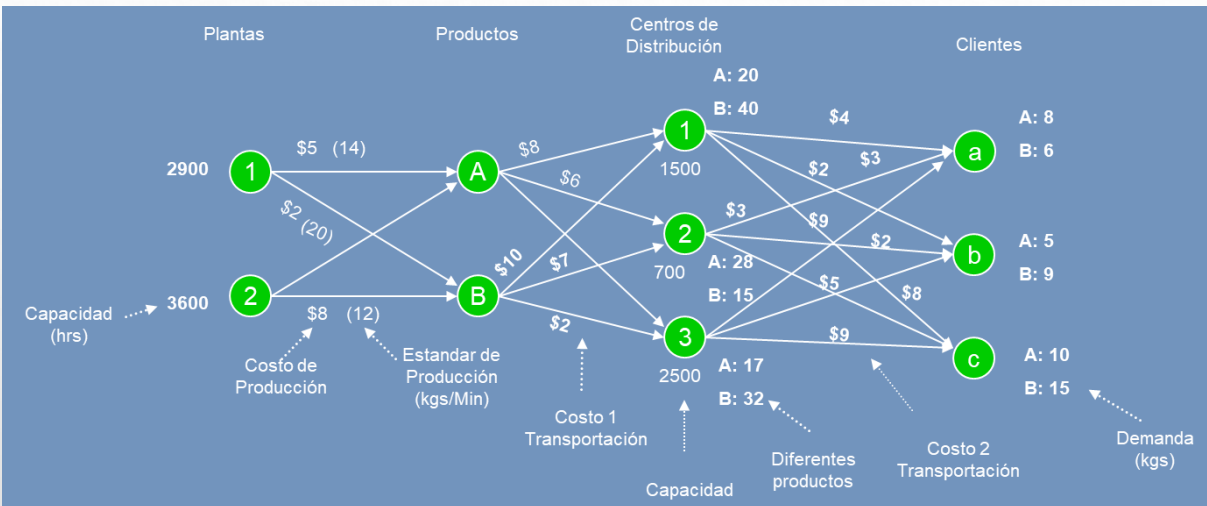
1. México (3 facilities)
2. Guatemala
3. Colombia
4. Venezuela
5. Brazil
6. Argentina



Technology: Windows, Visual Basic, Genetic Algorithms
DB Mgr: SQL Server
PM tools: BaseCamp Software, Scrum

Intelligent system for simulation and generation of optimal scenarios for model network assignment under a group of constraints about Capacity of Manufacturing Plants, Mixing of products, Distribution Centers capacities and Market demands at specific parameters

Technology: Windows, Visual Basic, Genetic Algorithms
DB Mgr: SQL Server
PM tools: BaseCamp Software, Scrum



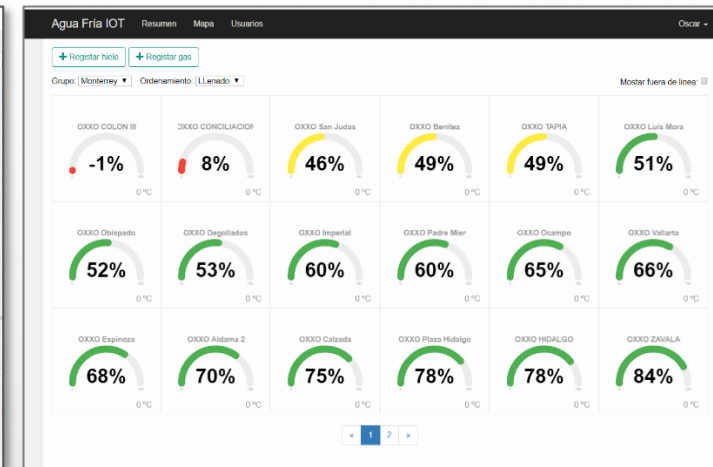
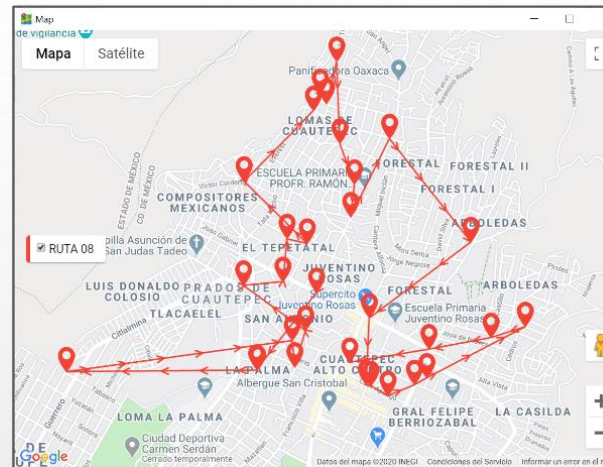
Alejandro Madariaga Navarrete



IT Project Management Experience

2011 - 2020

Web, Mobile, IOT and AI based tailor made software for small and medium companies



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www.vemobile.mx



Monitorea a tu fuerza de ventas en tiempo real

- Visualiza y gestiona la lista de productos, clientes y precios.
- Desde un sitio web controla y consulta de manera ágil y segura toda la operación de ventas en ruta.

Disponible para:

Avalado y Certificado por:

Integrador Certificado

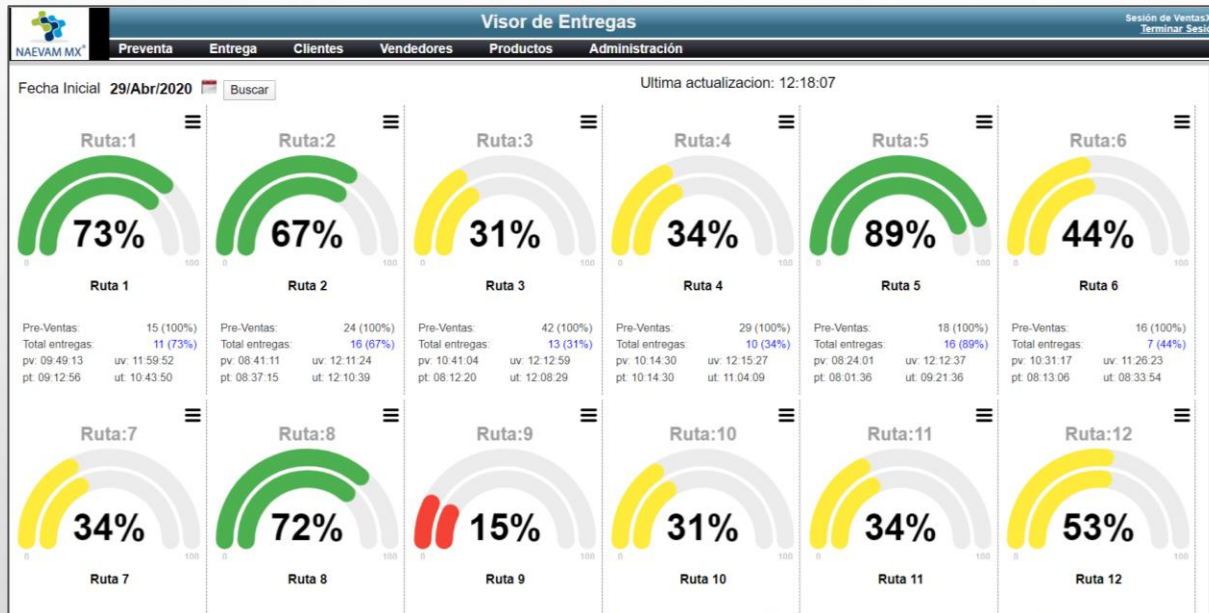


Active ASF Platform. A leadership product in México

Development team: 6 people
Support team: 5 people
Sales team: 3 people

Some statistics:

- ✓ 105 national and international customers (Costa Rica, Guatemala, Colombia)
- ✓ 900 routes in operation daily
- ✓ 42,000 sales transactions daily average
- ✓ Initial versión in 2008 for Blackberry, exclusively Android since 2012



Technology: PHP, Android,
DB Mgr: MySql
PM tools: Assana, Extreme Programming

Balance and optimization routes tool for high volumes delivery companies. This system uses Artificial Intelligence algorithms to approach optimal solutions over many routes and up to 40 delivery points each

Optimización Logística

Balaceo y Ruteo de Entregas

Balaceo Entre Rutas | **Secuencia por Ruta**

26/04/2020

Actualizar

Pedidos

Detalle >>

ID	Cliente	Pedido	Delegación	Kilos	Importe
6	Menú de las Mascotas	SF-501683	Alvaro Obregon	2.0	\$136
12	Menú de las Mascotas	SF-501683	Alvaro Obregon	50.0	\$1,218
11	Menú de las Mascotas	SF-501683	Alvaro Obregon	12.0	\$352
10	Menú de las Mascotas	SF-501683	Alvaro Obregon	2.0	\$136
9	Menú de las Mascotas	SF-501683	Alvaro Obregon	40.0	\$1,470
7	Menú de las Mascotas	SF-501683	Alvaro Obregon	2.0	\$149
5	Menú de las Mascotas	SF-501683	Alvaro Obregon	23.0	\$639
2	Cuca Pet Shop	SF-501761	Alvaro Obregon	10.0	\$370

969 registros 22.7 Tons Importe: \$636,807

Entregas >>

Cliente	Pedido	Delegación	Kilos	Importe
Particular Laura Diaz	SF-501617	Miguel Hidalgo	14.0	\$965.0
Abarrotes la fortuna	SF-501618	Iztapalapa	16.0	\$406.0
Mercado Chamizal Local 9	SF-501619	Iztapalapa	16.0	\$406.0
Mercado Chamizal Local 9	SF-501620	Iztapalapa	36.0	\$1,131.0
Mercado Gascasonica Loc	SF-501621	Miguel Hidalgo	75.0	\$1,966.0
Mercado Rastro Popular L	SF-501622	Venustiano Carranza	45.0	\$1,133.0
Miscelanea Yeni 29	SF-501623	Magdalena Contreras	70.0	\$1,613.0
Abarrotes La Favorita	SF-501624	Venustiano Carranza	16.0	\$406.0
La Croquetita Feliz	SF-501625	Alvaro Obregon	32.0	\$969.0

559 Entregas 22.7 Tons Importe: \$636,807

40 Max Entregas por Ruta
2 Max Tons por Camioneta
80 Max Importe (x 1000) por Ruta

Mapa x Deleg. Agrupación Balancear

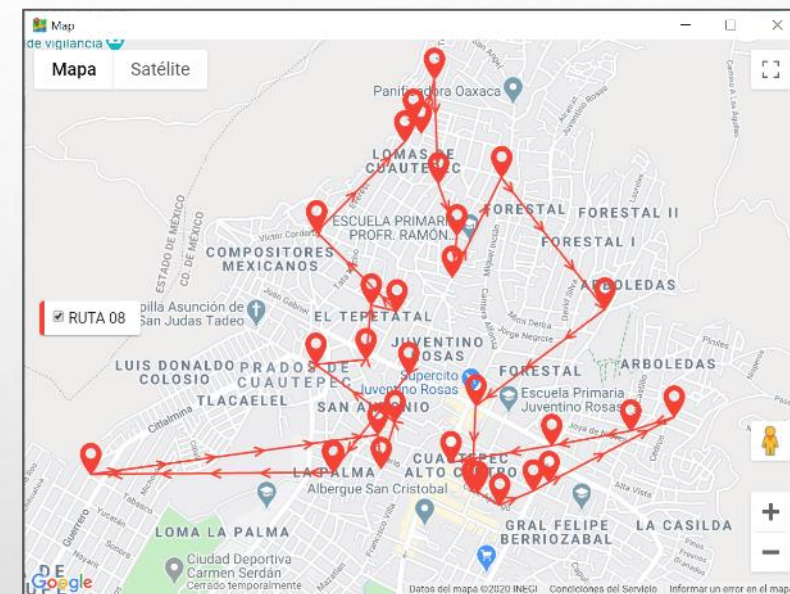
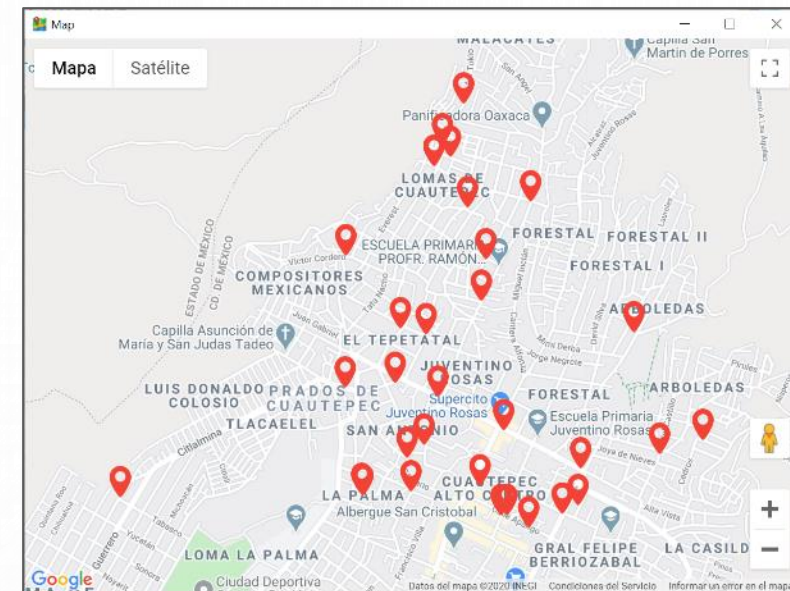
Ubicaciones

NAEVAM MX vemobile

Asginación Original por Delegación (sin Balance):

Ruta	Delegación	2da Cam	PDE	Tons	Importe	Delegación 2	Delegación 3
01	Alvaro Obregon		04	0.313	\$8,827		
02	Atizapán		08	0.284	\$7,557		
03	Azacapotzalco		16	0.510	\$15,714		
04	Benito Juárez		06	0.234	\$10,666		
05	Coacalco		05	0.156	\$4,324		
06	Coyoacan		12	0.461	\$13,487		
07	Cuauhtémoc		15	0.742	\$24,708		
08	Cuautitlán		10	0.221	\$6,224		
09	Chalco		11	0.332	\$8,531		
10	Chimalhuacán		33	1.070	\$28,445		
11	Ecatepec		56	2.030	\$55,405		
12	Gustavo A Madero		90	4.970	\$133,868		
13	Iztapalaca		24	0.642	\$17,864		
14	Iztacalco		06	0.254	\$7,862		
15	Iztapalapa		56	2.427	\$70,136		
16	Magdalena Contreras		10	0.433	\$11,530		
17	Miguel Hidalgo		09	0.387	\$11,442		
18	Naucalpan		22	0.640	\$17,626		
19	Nezahualcóyotl		54	2.119	\$58,833		
20	Tlahuac		18	0.546	\$15,473		
21	Tlalneantla		08	0.164	\$4,674		
22	Tlalpan		28	1.067	\$28,371		
23	Tuhtitlán		05	0.076	\$2,021		
24	Valle de Chalco		22	0.741	\$20,099		
25	Venustiano Carranza		15	1.254	\$36,341		
26	Xochimilco		16	0.612	\$16,779		

559 Entregas 22.7 Tons Importe: \$636,807 26 Camionetas



Technology : VB / React Native / Genetic Algorithms
DB Mgr: SQLServer
PM Tools: Extreme Programming

Global Platform for request and administration of weekly doses.
Initially operating in Mexico, starting in 2019, North America,
Europe and Asia will be integrated.



Granja: Happy little animals
Semana: 38 | 2017

Ordenes: Semana 38, 2017

Dosis Por Contrato: 50
Dosis Enviadas: 53

+ Nueva Orden

Orden 120	Estado: Pendiente
Producto(s): 337, L02	Solicitado en: dom., 10 sep. 2017
Orden 121	Estado: Confirmado
Producto(s): 337, L02	Día de envío esperado: jue., 09 nov. 2017
Orden 123	Estado: Entregado
Producto(s): 337, L02	Entregado en: jue., 09 nov. 2017
Orden 122	Estado: Enviado
Producto(s): 337, L02	Enviado en: jue., 09 nov. 2017

<< 1 >>

Inicio / Nueva Orden

Nueva Orden

Granja: Happy little animals

Día de entrega esperado: vie., 17 nov. 2017

Producto: 337
Cantidad: 100

Producto: L02
Cantidad: 50

+ Añadir Producto

Cancelar Siguiente >

DND

GTC 0	GTC 1
Order #1220	Order #1222
Order #1221	

Order No. Order #1226 Order #1227



Granja: All
Semana: 38 | 2017 | Semana: 45 | 2017

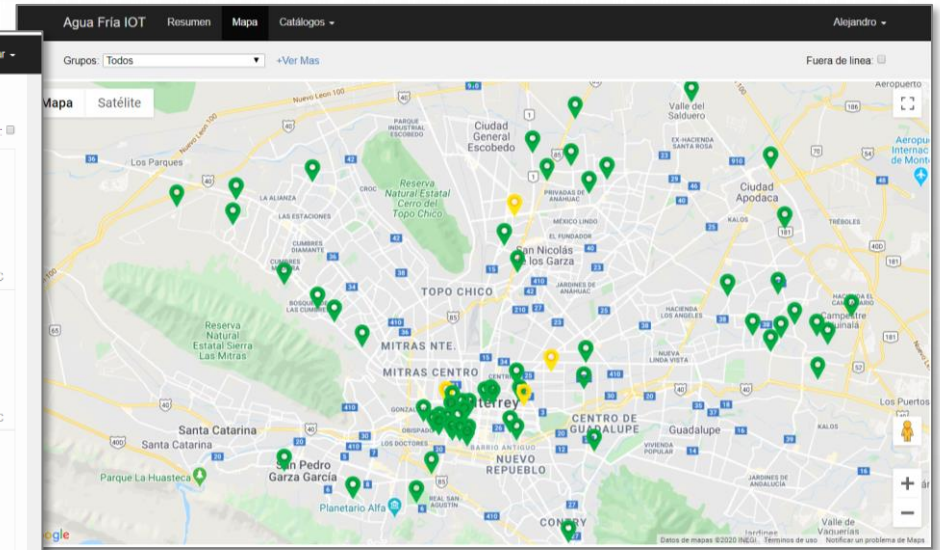
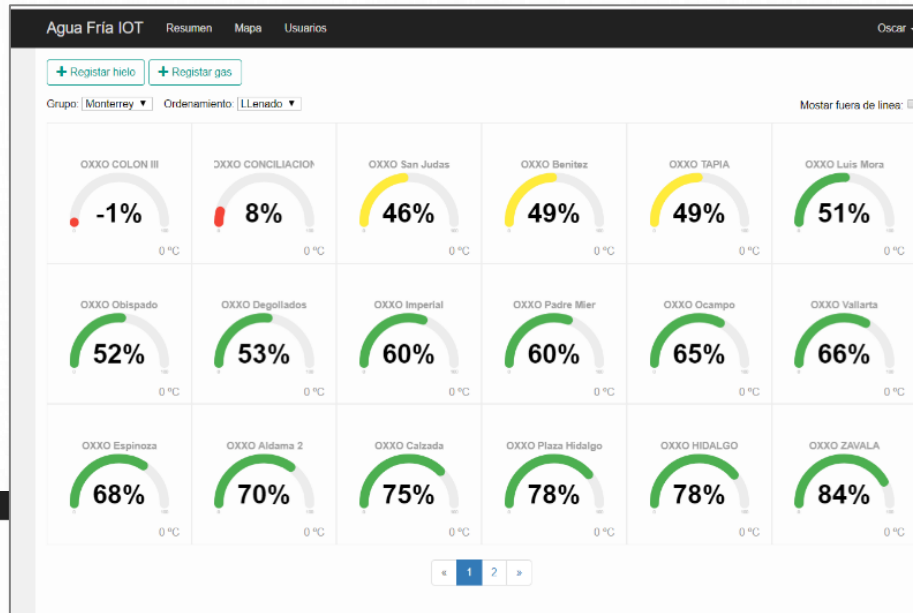
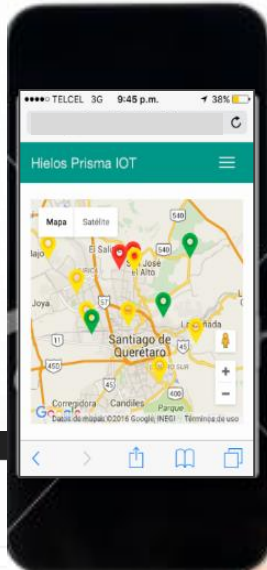
+ Nueva Orden

Order #	Product	Quantity	Customer	Farm	Requested Delivery	Confirm
120	337	5	200	Happy little animals	lun., 18 sep. 2017	<input checked="" type="checkbox"/>
120	L02	1	200	Happy little animals	lun., 18 sep. 2017	<input checked="" type="checkbox"/>
121	337	4	200	Happy little animals	lun., 18 sep. 2017	<input checked="" type="checkbox"/>
121	L02	1	200	Happy little animals	lun., 18 sep. 2017	<input checked="" type="checkbox"/>
123	337	1	200	Happy little animals	lun., 18 sep. 2017	<input checked="" type="checkbox"/>
123	L02	1	200	Happy little animals	lun., 18 sep. 2017	<input checked="" type="checkbox"/>
122	337	1	200	Happy little animals	lun., 18 sep. 2017	<input checked="" type="checkbox"/>
122	L02	1	200	Happy little animals	lun., 18 sep. 2017	<input checked="" type="checkbox"/>
124	L02	5	200	Happy little animals	jue., 28 sep. 2017	<input checked="" type="checkbox"/>
124	L02	21	200	Happy little animals	jue., 28 sep. 2017	<input checked="" type="checkbox"/>

Previous Page 1 of 4 10 rows Next

Technology : Front end: React Native
Backend: C#
DB Mgr: Oracle
PM tools: Teamwork Projects, Extreme Programming

Real time visualization, geolocation, historical data and automated alerts for different IoT devices



Innova

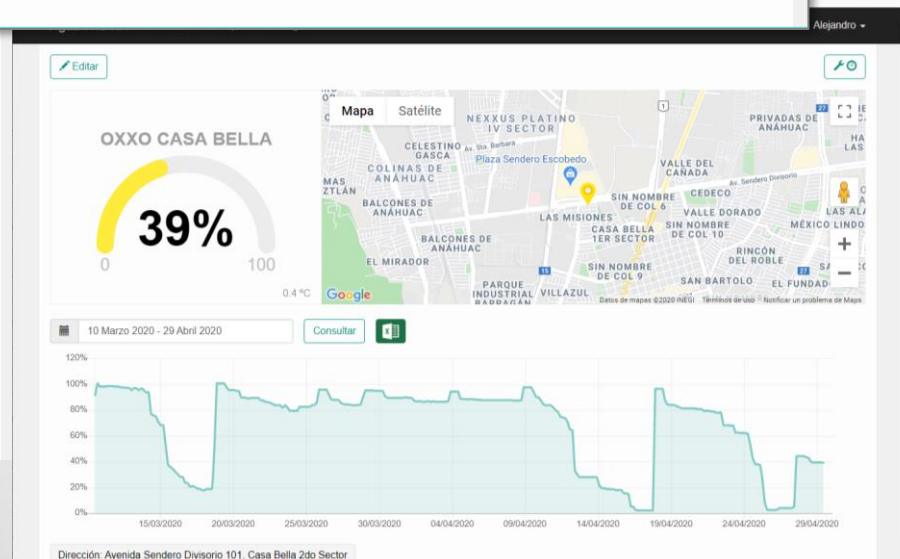
59 dispositivos

Datos Mínimos: 0

Consultar

ID de red	Nombre	Datos	En promedio	Cobrar
403DF1	Hare	171	si	si
40584A	Bucanias	147	si	si
405903	Icom	171	si	si
4058EF	3B SUR Piedregoso	0	no	si
4058EB	La Ceiba Nvo Vallarta	113	no	si
404886	Marlin	103	si	si
403953	Jarretaderas	125	no	si
4038A3	Parque Ocoelánico	0	no	si
405B14	Caracol	170	si	si
4040A5	Tondroque	171	si	si

Página 1 de 6



Technology : Phytion / React Native
DB Mgr: Postgress
PM Tools: Extremme programming

Automated Planning and real time traffic to following up of the entire fleet for a nation wide transportation services company




RH


Maintenance


Operations


Sales


Planning

Transporte Escobedo
Justo a TIEMPO

Actualización del sistema: 15:50

- Trailer**
- Ventas
- Edo. Unidades
- Edo. Remolque
- Trafico
- Tablero Trafico
- Unidades en Destino
- Tórton**
- Ventas
- Edo. Unidades
- Trafico
- Tablero Trafico
- Unidades en Destino
- Camioneta**
- Ventas
- Edo. Unidades
- Trafico
- Tablero Trafico
- Unidades en Destino
- VAN**
- Ventas
- Edo. Unidades
- Trafico

Avance de unidades en servicio

Total de servicios: 17, en tiempo: 16, destiempo: 1, porcentaje de cumplimiento: 94 %

UNIDAD	REMOLQUE	BITACORA	ORDEN	CLIENTE	ORIGEN	DESTINO	FCH PROGRAMADA	FCH DESCARGA	AVANCE
60122	70047	QRO-68310	42856	ALBEA PACKAGING DE M	QUERETARO	NAUCALPAN DE JUAREZ	28/04 13:00	28/04 23:00	1 %
60135	70007	QRO-68278	42847	PRODUCTOS ALIMENTICI	QUERETARO	QUERETARO	28/04 12:00	29/04 12:00	0 %
60175	70010	MEX-24782	42795	INDUSTRIAL ACEITERA,	MEXICO, D. F.	LEON	28/04 08:00	29/04 08:00	1 %
60199	70074	MEX-24772	42792	INDELPRO, SA DE CV.	ALTAMIRA	MORELIA	28/04 10:00	29/04 12:00	50 %
60215	70057	QRO-68291	42849	EFFEM MEXICO, INC. Y	QUERETARO	CIENEGA DE FLORES	28/04 03:00	28/04 19:00	89 %
60217	70024	MEX-24779	42794	DESARROLLO LOGISTICO	MONTERREY	CUAUTILAN	28/04 05:00	30/04 03:00	1 %
60240	70070	QRO-68292	42853	EFFEM MEXICO, INC. Y	QUERETARO	HERMOSILLO	28/04 04:00	30/04 04:00	28 %
60241	70031	QRO-68290	42848	EFFEM MEXICO, INC. Y	QUERETARO	CHIHUAHUA	28/04 03:00	29/04 03:00	53 %
60243	70073	QRO-68257	42836	PRODUCTOS ALIMENTICI	QUERETARO	MONTERREY	28/04 12:00	29/04 14:00	37 %
60243	70059	QRO-68302	42855	EFFEM MEXICO, INC. Y	QUERETARO	GUADALUPE	28/04 12:00	29/04 04:00	19 %
60246	70046	MEX-24771	42790	COMERCIALIZADORA ELO	ECATEPEC	MONTERREY	27/04 20:00	29/04 06:00	55 %
60250	70039	MEX-24780	42793	INDELPRO, SA DE CV.	MONTERREY	ALTAMIRA	28/04 02:00	29/04 22:00	56 %
60186	70056	QRO-68281	42850	TRANSPORTE ESCOBEDO	LOS MOCHIS	GUADALAJARA	27/04 18:00	28/04 18:00	88 %
60197	70058	QRO-68311	42894	TRANSPORTE ESCOBEDO	SN LUIS POTOSI	QUERETARO	28/04 14:00	28/04 19:00	3 %
60236	70052	QRO-68261	42841	TRANSPORTE ESCOBEDO	HERMOSILLO	GUADALAJARA	27/04 13:00	28/04 23:00	91 %
60238	70067	QRO-68307	42892	TRANSPORTE ESCOBEDO	SN LUIS POTOSI	QUERETARO	28/04 13:00	28/04 18:00	67 %
60244	70030	QRO-68264	42844	TRANSPORTE ESCOBEDO	LOS CABOS	GUADALAJARA	28/04 12:00	30/04 12:00	0 %

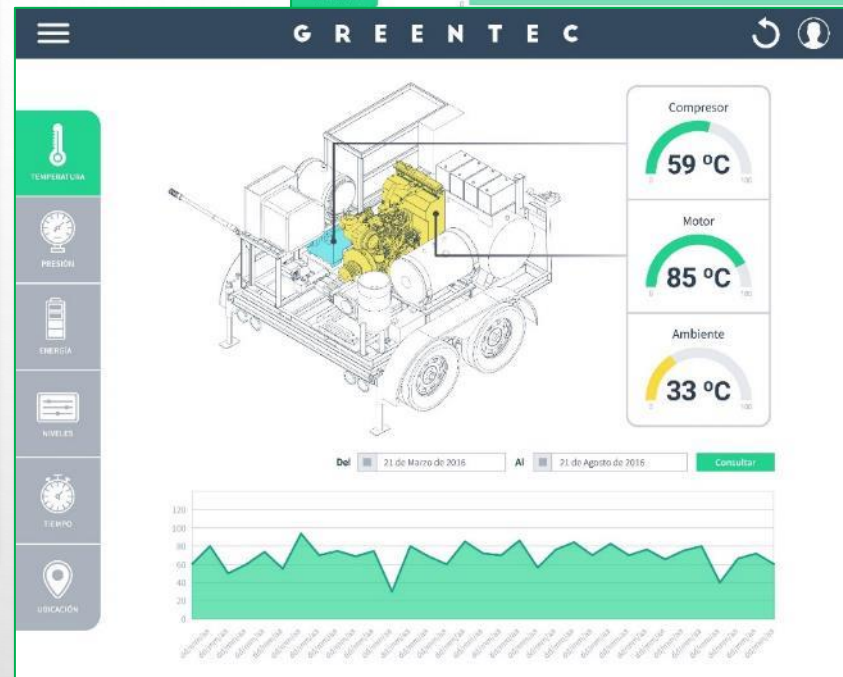
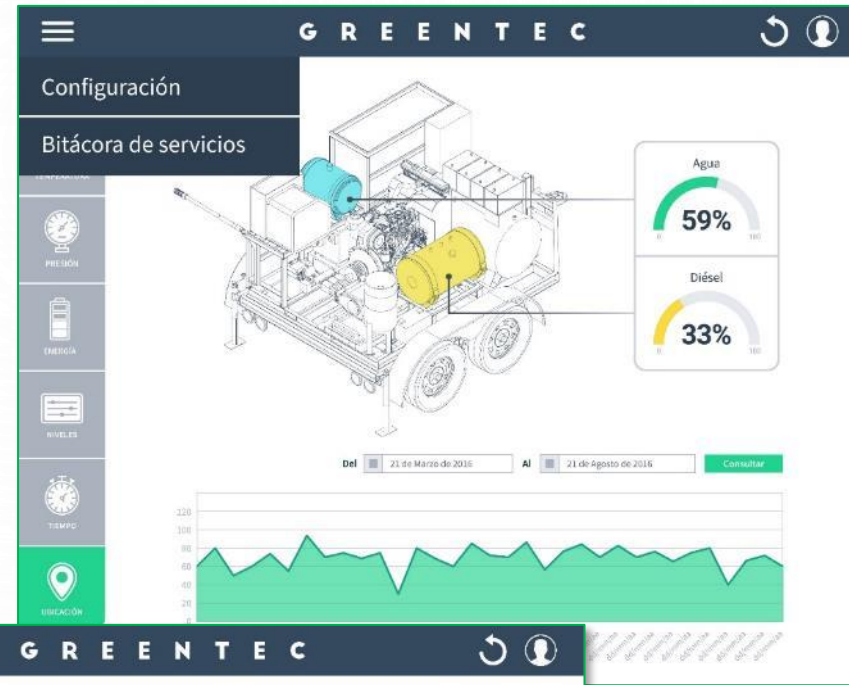
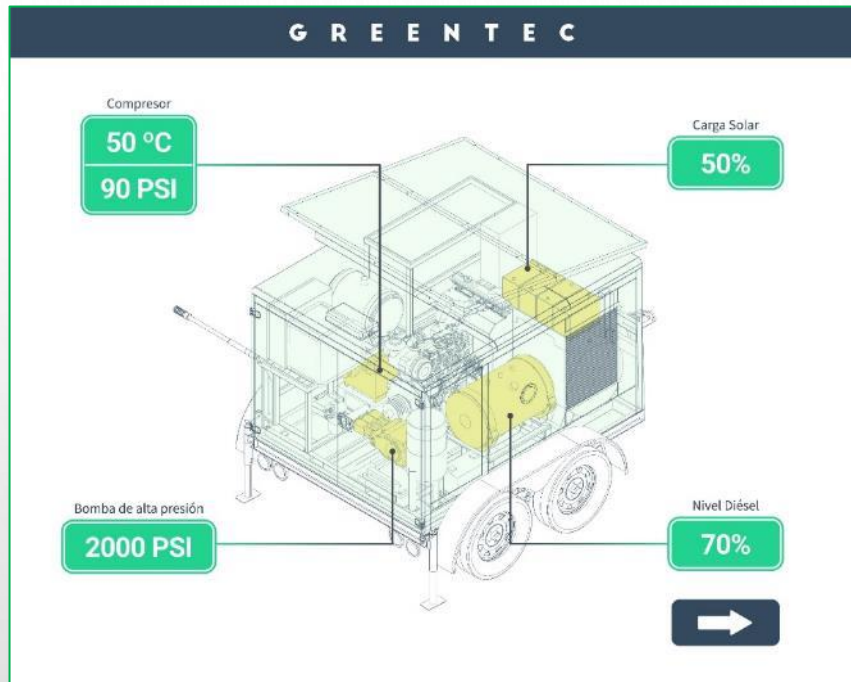
Servicios ejecutando Patio

UNIDAD	ESTADO	UBICACION
Leyenda: ⚠️ ⚠️ ⚠️ Detalle Apto Medico y Licencia REMOLQUE Diferencia entre unidad y remolque 📍 Sin coordenadas, Actualización de posición Unidad 🔄 y Remolque 🔄 % En tiempo % En destiempo 🗺️ Mapa 📺 Tutorial		

Technology : React Native
DB Mgr: MySql
PM Tools: Extreme Programming / Assana

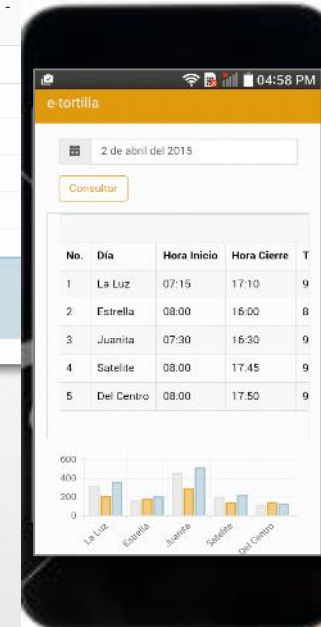
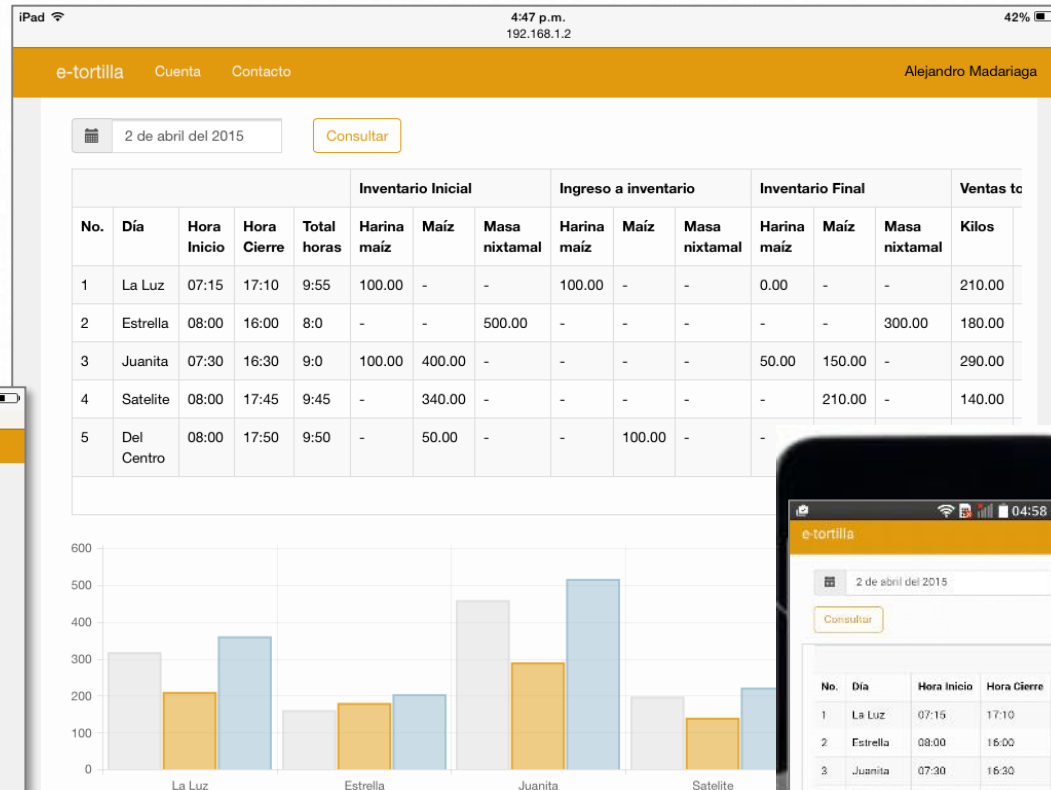
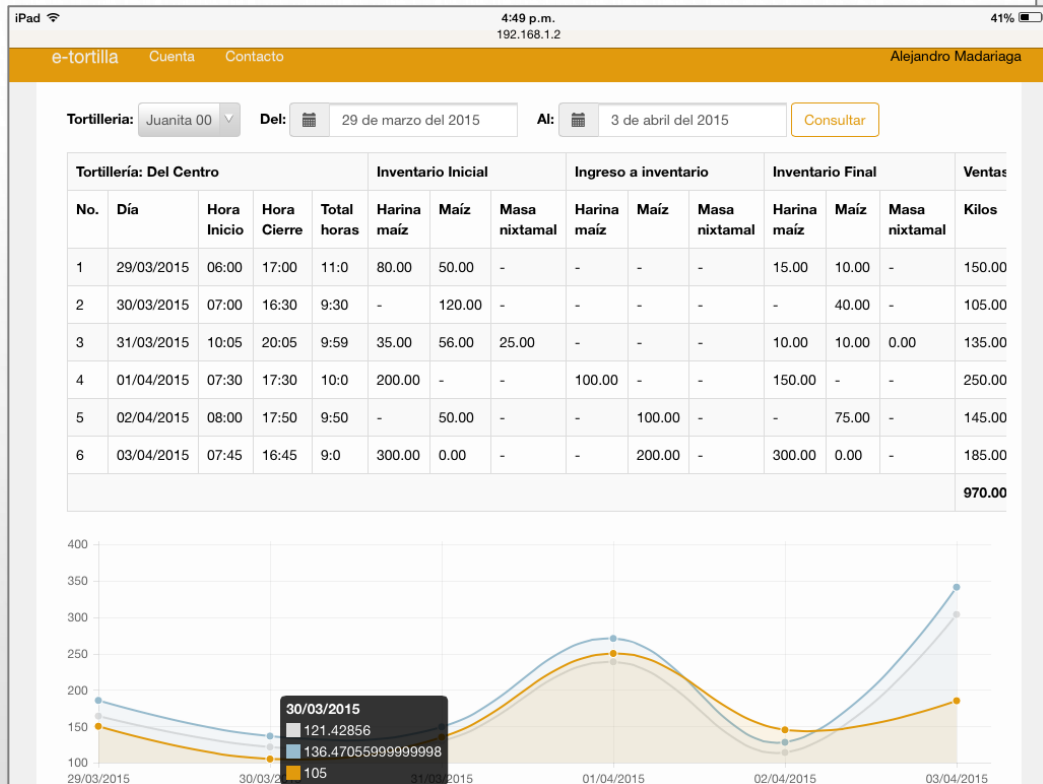
Greentec equipment variable monitoring system (Industrial Maintenance).

Includes the design and implementation of an electronic gateway that sends the information over each variable of the equipment in real time



Technology : IIoT / React Native
DB Mgr: MySql
PM Tools: Extreme Programming / Assana

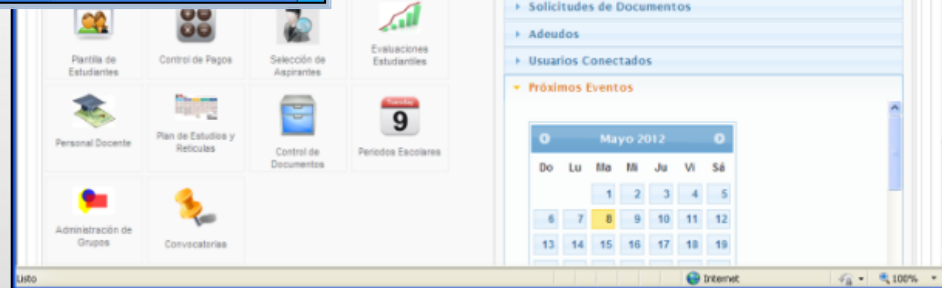
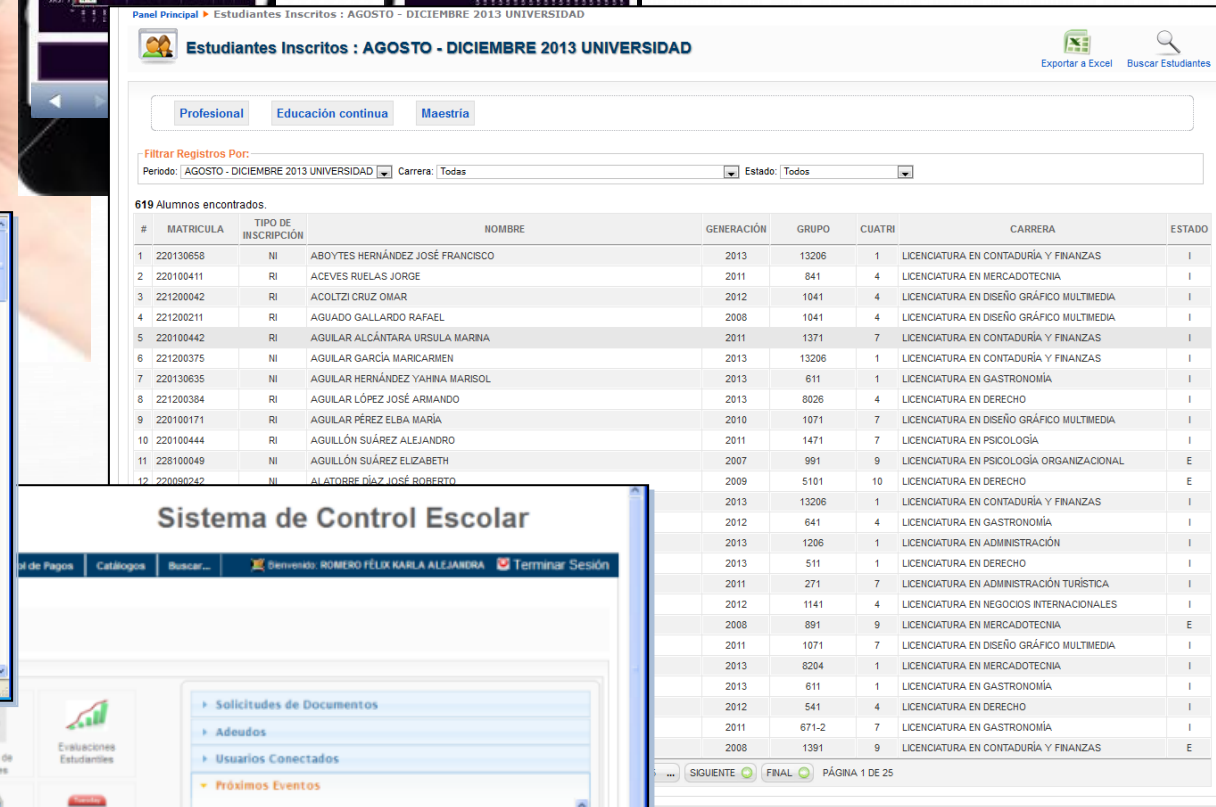
Sales Control, supervision and basic management for tortilla small business



Technology : Python / React Native
DB Mgr: Postgress
PM Tools: Extreme Programming



A complete ERP for schools



Technology : Front end: PHP
 Backend: C#
DB Mgr: SQL Server
PM Tools: Teamwork Projects / Scrum



On-Line Academic Platform



Technology : iOS Swift / JavaScript, PHP
DB Mgr: SQL Server
PM Tools: Scrum / Teamworks Projects



Seeds Resumen Relevantes Día Palabras Clave Alejandro

Resumen de oportunidades

Mes: Agosto Año: 2015 Consultar

Sitios	Acumuladas	Nuevas hoy	Relevantes	Eliminadas	Revisadas
Banco Interamericano de Desarrollo	187	0	0	46	0
Banco Mundial	43	0	0	3	0
Banco Centroamericano de Integración Económica	0	0	0	11	0

Palabra clave	Acumuladas	Nuevas hoy	Relevantes	Eliminadas	Revisadas
TRANSPORTE	21	0	0	14	0
TRANSPORTATION	13	0	0	1	0
TRANSPORTE URBANO	8	0	0	0	0
ADUANA	4	0	0	0	0
Mexico	3	0	0	5	0
AEROPUERTO	1	0	0	0	0
EQUIPOS DE TRANSPORTE	1	0	0	6	0

Seeds Resumen Relevantes Día Palabras Clave Alejandro

Oportunidades: 200

Sitio: Banco Interamericano de Desarrollo

id	Oportunidad	Descripción	Busqueda		
BO-L1115	Companex Bolivia S.A.	El objetivo del proyecto consiste en mejorar las condiciones de ...	CAL Y MAYOR	🗑️	★
CR-T1134	Pensamiento logico-matemático con el uso ...	En 2012 el Gobierno de Costa Rica inició una reforma ...	COSTA RICA	🗑️	☆
RG-T2696	Diseño e implementación de evaluaciones ...	La CT financiará el diseño de las evaluaciones de impacto ...	COMPETITIVIDAD	🗑️	☆
ME-T1299	Apoyo al Saneamiento Integral de ...	Apoyar el saneamiento integral de la Bahía de Campeche, Mexico ...	Mexico	🗑️	★
CR-T1134	Desarrollo del pensamiento científico y ...	En 2012 el Gobierno de Costa Rica inició una reforma ...	COSTA RICA	🗑️	☆
PE-L1159	Mejoramiento de los Servicios de ...	Apoyar a Perú en el desarrollo e implementación de una ...	ADUANA	🗑️	☆
CO-L1156	Plan Integral de Intervención para ...	El Pacífico Colombiano, es una de las regiones de Colombia ...	MULTIMODAL, TRANSPORTE, TRANSPORTE EN DUCTO, GAS TRANSPORT, TRANSPORTE MULTIMODAL, COMPETITIVIDAD	🗑️	★
HO-L1104	Programa de Integración Vial Regional ...	El proyecto financiará el mejoramiento de las condiciones físicas del ...	TRANSPORTE, MESOAMERICA	🗑️	★

Palabras clave

Ver Eliminadas

Nueva palabra

Añadir

LOGISTICS

Banco Mundial Banco Interamericano de Desarrollo Banco Centroamericano de Integración Económica

TRANSPORTATION PLANNING

Banco Mundial Banco Interamericano de Desarrollo Banco Centroamericano de Integración Económica

PIMUS

Banco Mundial Banco Interamericano de Desarrollo Banco Centroamericano de Integración Económica

PLANES INTEGRALES DE MOVILIDAD URBANA

Banco Mundial Banco Interamericano de Desarrollo Banco Centroamericano de Integración Económica

COMPETITIVIDAD

Banco Mundial Banco Interamericano de Desarrollo Banco Centroamericano de Integración Económica

Scraper web system for automatic looking into logistic projects opportunities

Technology : Phyton

DB Mgr: Postgress

PM Tools: Extreme Programming

Windows / Web panel for OEE monitor system (IIOT)



SmartPhone



Linea	Programado	Producidas	Eficiencia
Bolsas Lote: T015017 Cliente: Bakkavor OP: 10012 Supervisor: Marcos	12000	1234	100%
Cubetas Lote: T015017 Cliente: Two Chefs OP: 10025 Supervisor: Marcos	6000	450	75%
Tambos Lote: T015017 Cliente: Cedars OP: 10035 Supervisor: Marcos	180	2	30%



OMNILIFE
GENTE QUE CUIDA A LA GENTE

Technology : IIOT/ React Native / C#
DB Mgr: SQL Server
PM Tools: Extreme Programming



Alejandro Madariaga Navarrete



2021 - 2024

IT Project Management Experience

Complete IOT devices and environment focused on Industrial and Water Care solutions for open market

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Let's take care of the water because the magic of the planet is in it!

01 Toilet Leak

02 Sub Consumption

03 Well Monitor

04 Tank Level

flowi

Caring water through IOT

SmartSIDE®



Toilet Leak



What is it?



In a Hospital

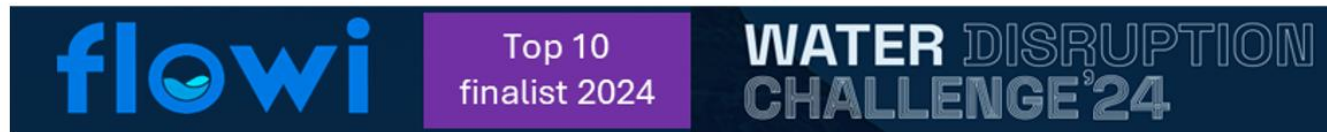


In a Hotel



This is how it works

A low-cost IOT device created to detect non-visible or non-audible leaks and avoid waste in toilet water tanks



Statistically, 1 in 5 toilets has some level of water leak

At least 15% savings on water bills

The device uses WiFi to link to its IOT Platform and uses the water flow to power the electronics



SMS alerts



Always on your side



SmartSIDE®



Equipment created to measure water consumption in areas of interest within various facilities

Connected to IOT platform. Accurate measurement.

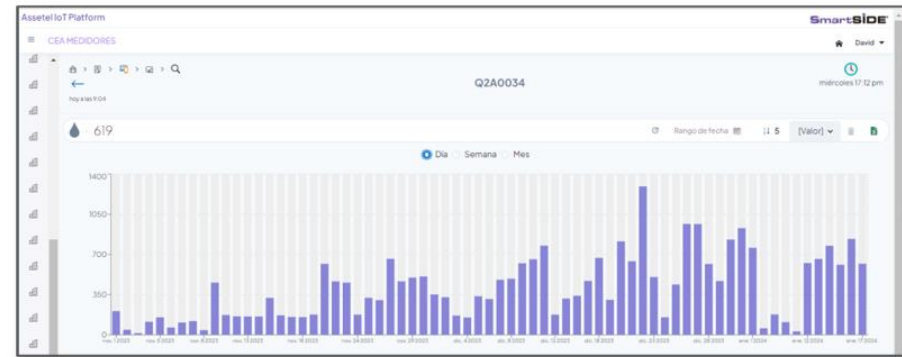


1



2

Demostrative videos

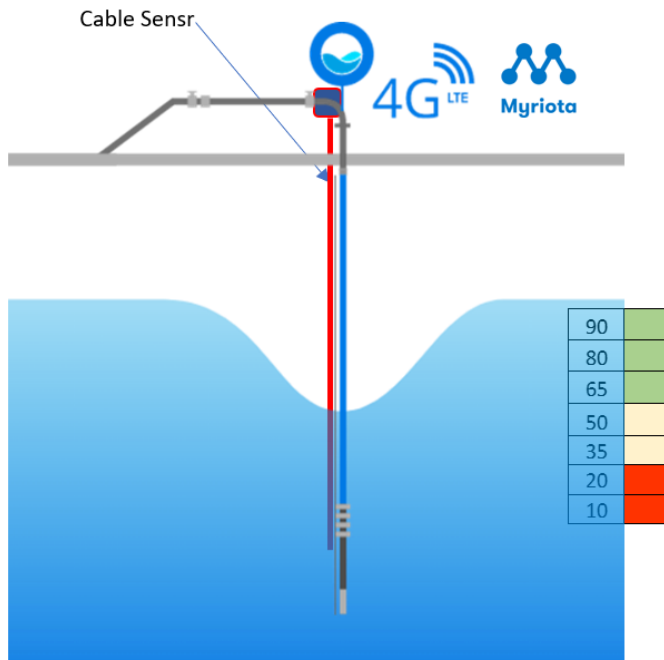
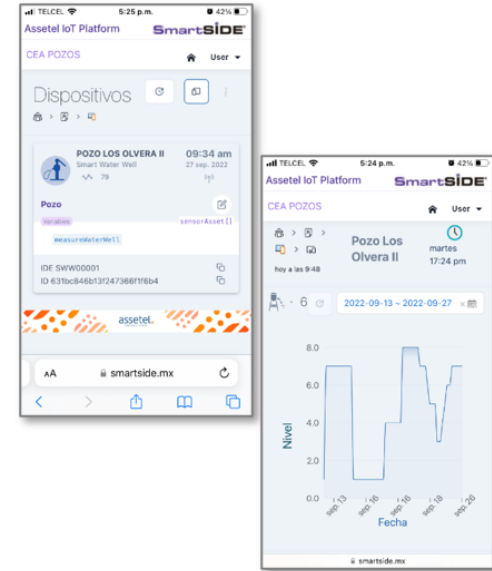


flowi

Well Monitor

Disruptive technology that monitors the water level in deep wells in real time

The measurement of energy used in pumping equipment is included. In addition, the level of conductivity of the water approximates the level of contamination

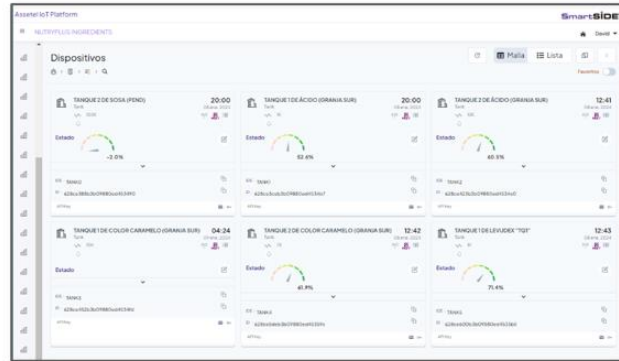


Demostrative video (35 segs)





Level measurement equipment in industrial tanks of any capacity



They operate on liquids, chemicals or solids (Silos). Optionally they use direct current, batteries and/or solar cells



Optionally, temperature on the surface of the content can be included



Monitoring and administrative web Platform

