



MED MSMEs
Policies for inclusive growth

THIS PROGRAMME IS FUNDED BY THE EUROPEAN UNION

AIS
GROUP

PSD2: How can it inspire South Med policies and regulations?



José Manuel Aguirre, Director

Artificial Intelligence Systems S.A.

June 2022

1987

AIS Group creation

> 250

Clients

30+

Countries

10%

Innovation investment

Applied Intelligence on digital finance for:



Banks



Financial
Institutions



Fintech



Cars and
fleets



Real estate



Insurances



Retail



Industry
Smart Cities



CLIENTS

Banks



Retail



Cards



Mortgages



SME credit



BNPL / eCommerce



Autos



Fintech



Insurance



Real State



Telco



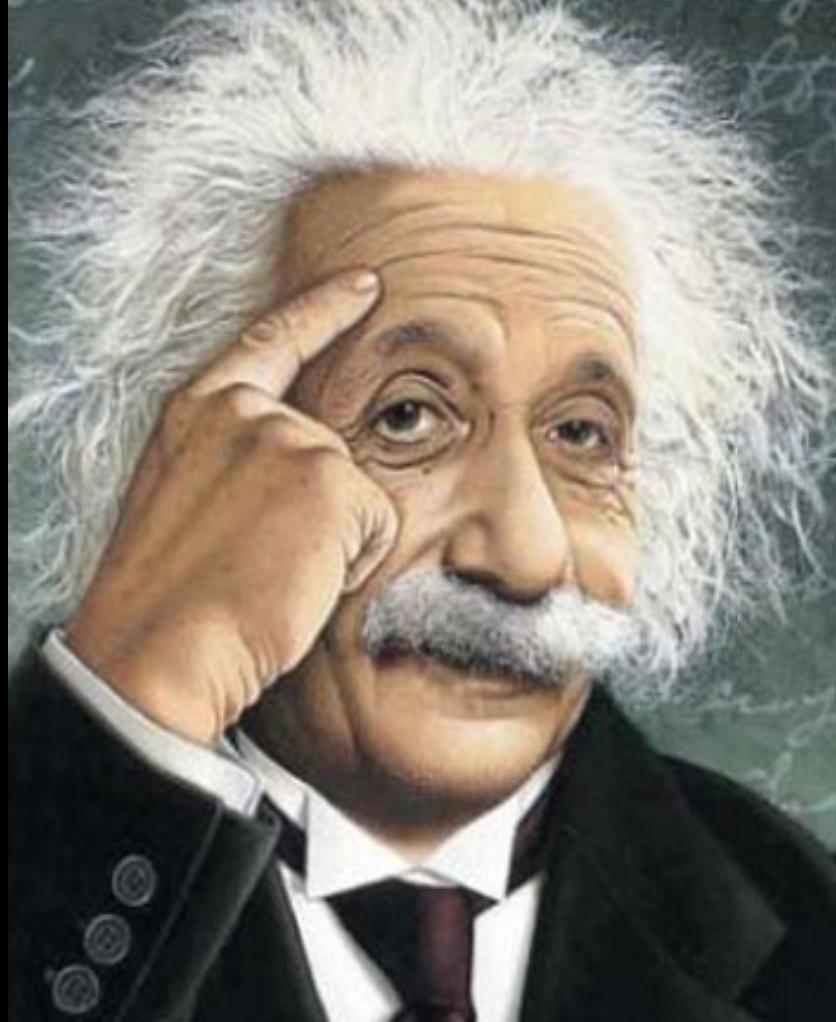
Others



“
The world as we have created it is a process
of our thinking. It cannot be changed
without changing our thinking.

If you want to live a happy life, tie it to a
goal, not to people or things. ”

Albert Einstein



AGENDA

- ❖ AIS , the company
- ❖ Changes everything changes
- ❖ How it all started. Players
- ❖ Step by Step Account processing
- ❖ PSD2 Financial data integration

Changes, everything changes....



CHANGING LABOUR SECTOR STRUCTURES

TECHNOLOGY HAS CONTINUOUSLY CREATED & DESTROYED JOBS

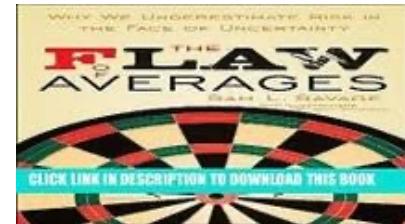


STATISTICS, BIG DATA AND MACHINE LEARNING



[Michael Porter proposed in 1980](#) that companies could be competitively advantaged only through cost leadership or differentiation

BCG. July 22, 2019 By [Hans-Paul Bürkner](#), [Martin Reeves](#), [Hen Lotan](#), and [Kevin Whitaker](#)



Sam Savage

Consulting professor, Stanford University Dept. of Mgmt. Science and Engineering. Fellow at Judge Business School at the University of Cambridge



Big data is like teenage sex: everyone talks about it, nobody really knows how to do it, everyone thinks everyone else is doing it, so everyone claims they are doing it...



Dan Ariely

Professor of Psychology and Behavioral Economics, Duke University

NEW USERS, NEW FORMS...

Millenials and platforms are changing radically the world we live in and our entire way of life

- Younger customers, more demanding and creative. Digital natives.
- Development of new tools in finance, shopping, payments, entertainment, trasportation, etc.



- In entertainment



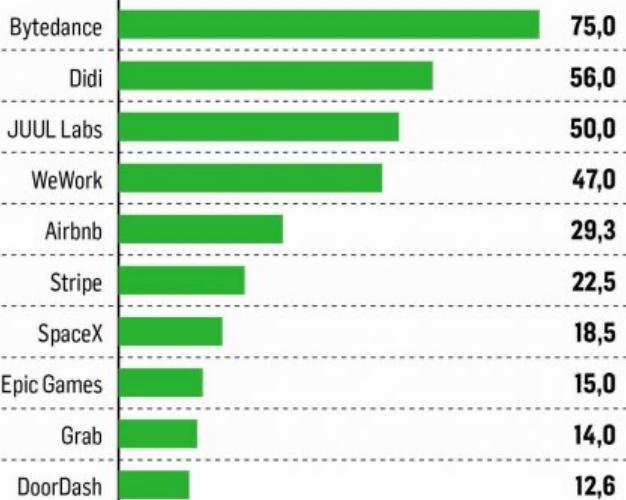
- HatsuneMiku
- The future is not what it used to be The land, machines, communications, data





Startups world ranking

Value in billions of US dollars



Fuente: CB Insights

APPLE
SPACESHIP
Cupertino, California

Norman Foster

AGENDA

- ❖ AIS , the company
- ❖ Changes everything changes
- ❖ How it all started. Players
- ❖ Step by Step Account processing
- ❖ PSD2 Financial data integration

THE ADVANTAGES OF DIGITAL FINANCE NEOBANKS -1

Better knowledge and management of your finances, the key to the new era



Always Available

Now you can Fully manage your bank account on-the-go using the app or desktop site



Financial Control

Control your money with unique budgeting tools and real-time actions notifications



Safe & Secure

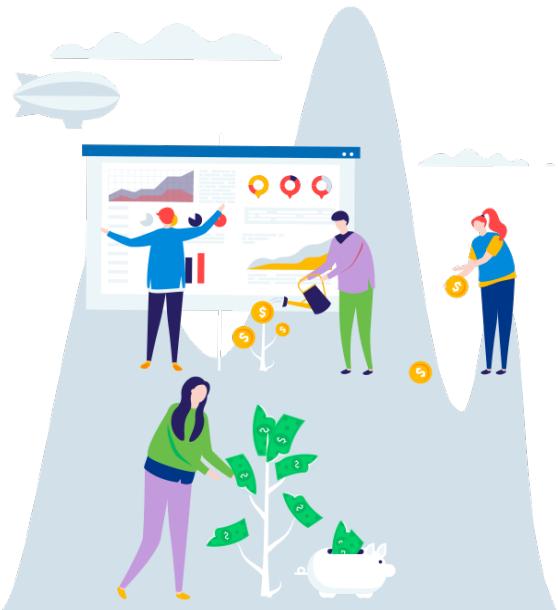
These services uses the highest level of security standards, regulations and funds protection, so your money will be safe

Covid times reinforced the use of distance media transactions

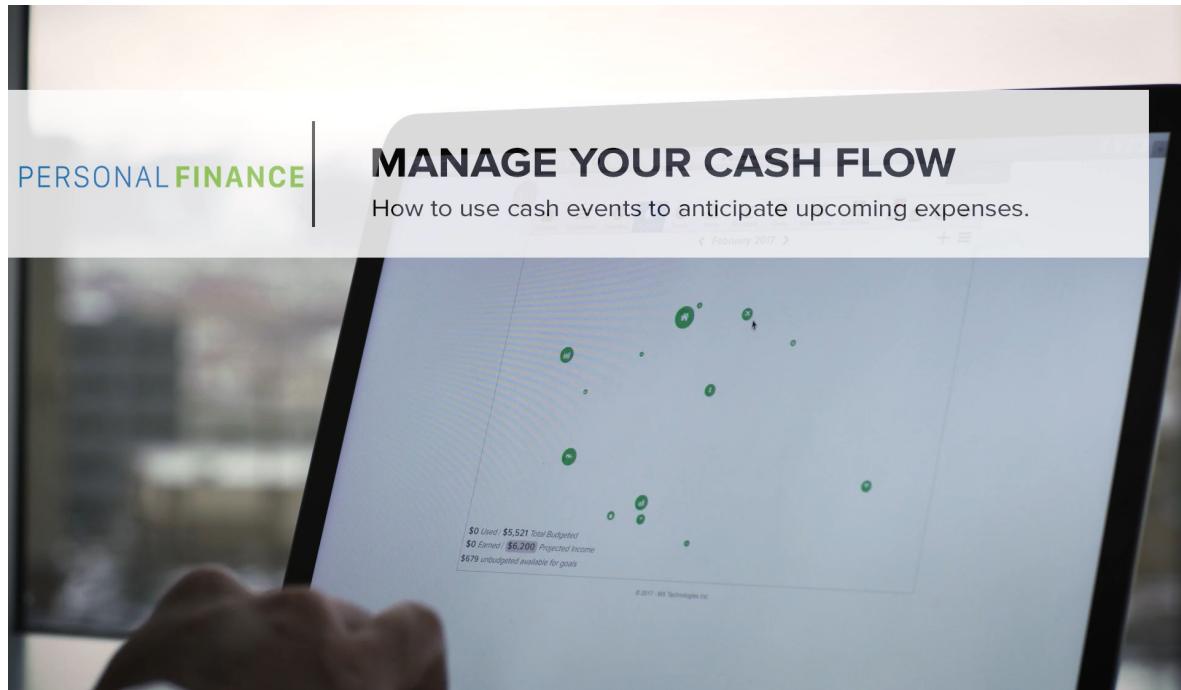


EDUCATING THE CUSTOMERS

The first step in the innovation process (or just the way around?)



Compare this with an old credit card



HOW IS MY ENTITY DOING?

OPEN / DIGITAL BANKING STATUS



TECHNOLOGY in A I



CUSTOMERS BEHAVIOURAL ANALYSIS



RESPONSE TIME TO AN APPLICATION



COMPETITIVE ENVIRONMENT



CREDIT WORKFLOW

Full credit life cycle workflow for managing to grant loan operations including theirs documents.

Full range of validation/approval including risk committees.

Risk policies, documentation, regulation and product requirements including pricing.

Retail and Enterprise for risk control extended to guarantors, guaranties and economic groups

Assignment of powers by product, amount and other characteristics for easier making decisions.



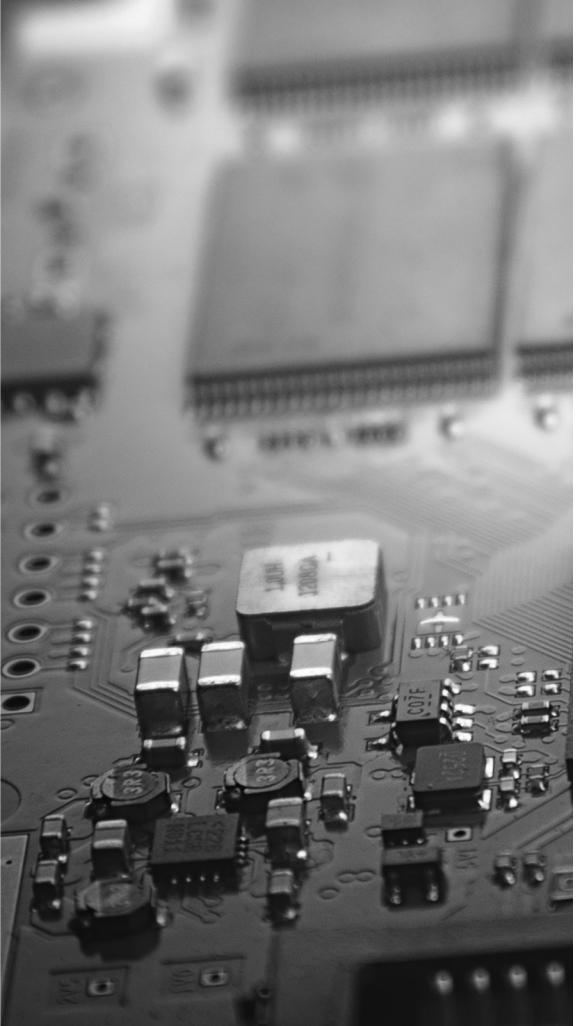
SCACS

Complete credit life cycle platform

A screenshot of the SCACS Customer file interface. The top bar is red with the title 'Customer file' and the AIS logo. Below the header, there is a summary row with fields: Documento (858 - 6J - 46637142L), Name (Group), Autopistas SA, Segment (Pymes I), Centro (Grupo de Clientes Demo 4), Police Officer, and Normal - NORMAL-NORMAL. The main area is divided into five sections: 'Customer ID' (with a person icon and links to Main ID data, General overview, and Incorporation Data), 'Customer analysis' (with a magnifying glass icon and links to Credit Bureau, Background, and Outstanding), 'Descriptions' (with a gears icon and links to Shareholders, Related co's, Suppliers, and New worth), 'Documents' (with a folder icon and links to Relevant documents, Balance sheet, and Sensitivity Analysis), and 'Summary' (with a document icon and links to Customer summary, Customer report, Related companies, and Shareholders).

AGENDA

- ❖ AIS , the company
- ❖ Changes everything changes
- ❖ How it all started. Players
- ❖ Step by step account processing
- ❖ PSD2 Financial data integration

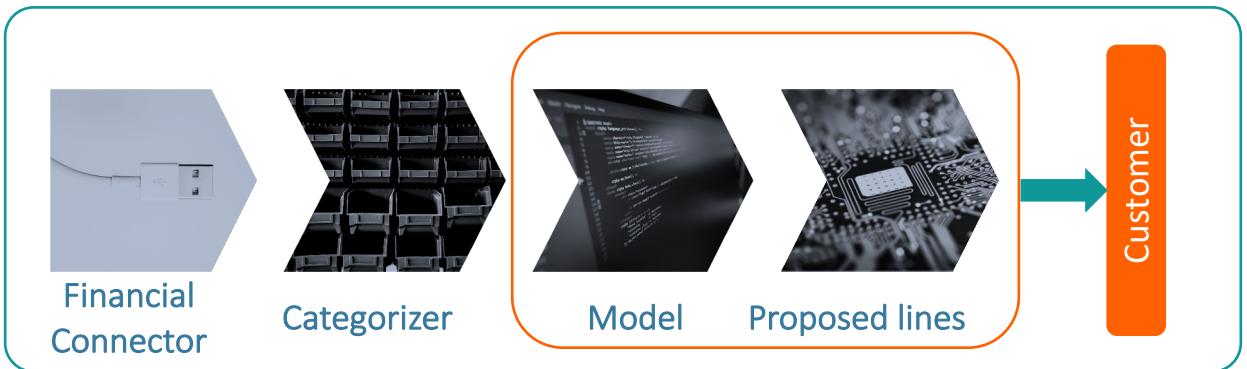


AIS KNOWU

Data Integration

AisKnowU is a software solution that allows financial data integration. There are several alternatives for the integration of data in AIS KnowU, from a total inclusion via webservice, to the acquisition of models and their exploitation in an internal environment:

Weservice





AIS KnowU

Making new customers

RESULT OF ACCOUNTS INTEGRATION FOR AN INDIVIDUAL

Firefox

https://rules.ais-int.net/AISKnowU_DemoAlquileres/S/3xqghbyz1lmmuyedkkaef%0a Perfil...

Resultados obtenidos

Scoring

10/10

	Nota
Scoring	10

Comentarios

€/mes

Importe alquiler máximo

Resumen de productos en la entidad

Número de productos	Balance	Disponible
---------------------	---------	------------

08/06/2022, 16:11

	Número de productos	Balance	Disponible
Cuentas	1	95.041,49	
Tarjetas	1	-414,56	2.585,44
Préstamos	1	325.000,00	
Ahorro	0	0,00	
Inversión	1	2,98	

Información sobre cuentas

Información Estadística

	Último mes	Últimos 2 meses	Últimos 3 meses
Saldo	95.041,49	94.409,10	95.544,42
Saldo medio	93.775,59	94.517,22	93.824,74
Saldo mínimo (a nivel de cuenta)	92.052,88	92.052,88	90.853,01
Saldo máximo (a nivel de cuenta)	95.041,49	95.822,65	96.408,50
Ingresos mensuales medios	3.177,60	2.567,48	3.957,04
Ingresos totales	3.177,60	5.134,95	11.871,11
Gastos mensuales medios	2.545,21	2.818,94	2.819,15
Gastos totales	2.545,21	5.637,88	8.457,46
Balance de caja	632,39	-502,93	3.413,65

https://rules.ais-int.net/AISKnowU_DemoAlquileres/Login.aspx

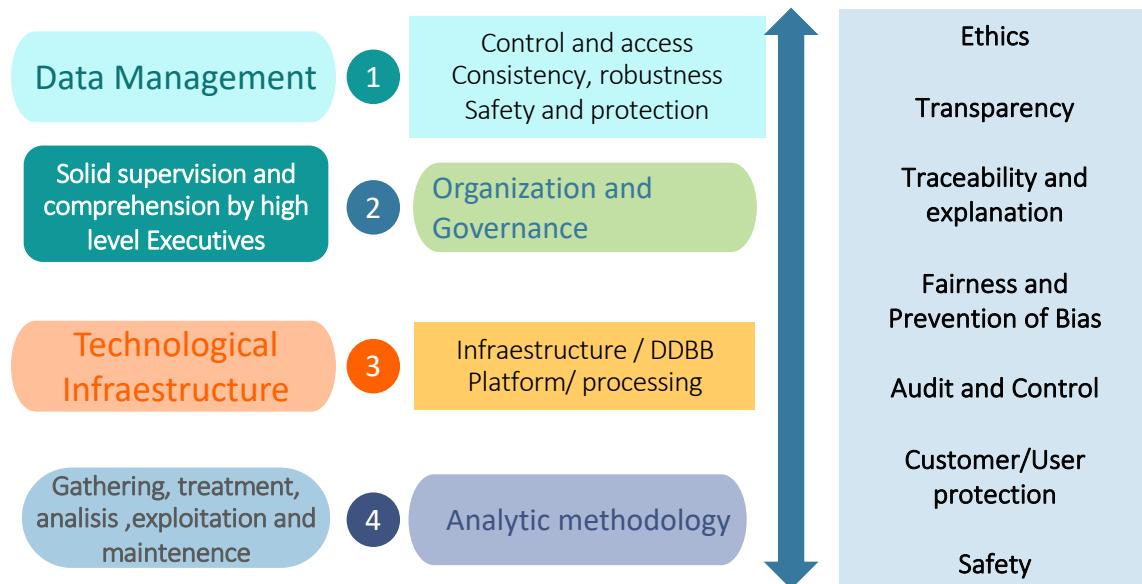
SUPERVISOR'S POSITION

European Bank's position

The supervisor is positioning himself in the use of Big Data, ML and Advanced Analytics

The Spanish supervisor, Bank of Spain, took a similar position, encouraging the análisis and use of “new” techniques

- The EBA identifies 4 basic pillars for the development, implementation and adoption of Big Data, ML and Advanced Analytics
- Additionally, it defines a series of fundamental elements of trust that must be adequately and sufficiently addressed and across the 4 pillars



Source: "EBA Report on Big Data and Advanced Analytics", January 2020.

WHAT IS CHANGING IN THE FINANCIAL SECTORS



On the Rise of the FinTechs—Credit Scoring using Digital Footprints

...the AUC of the model using digital footprint variables is 69.6%, higher than the AUC of the model using only the credit bureau score (68.3%).

FDIC CFR WP 2018-04 fdic.gov/cfr



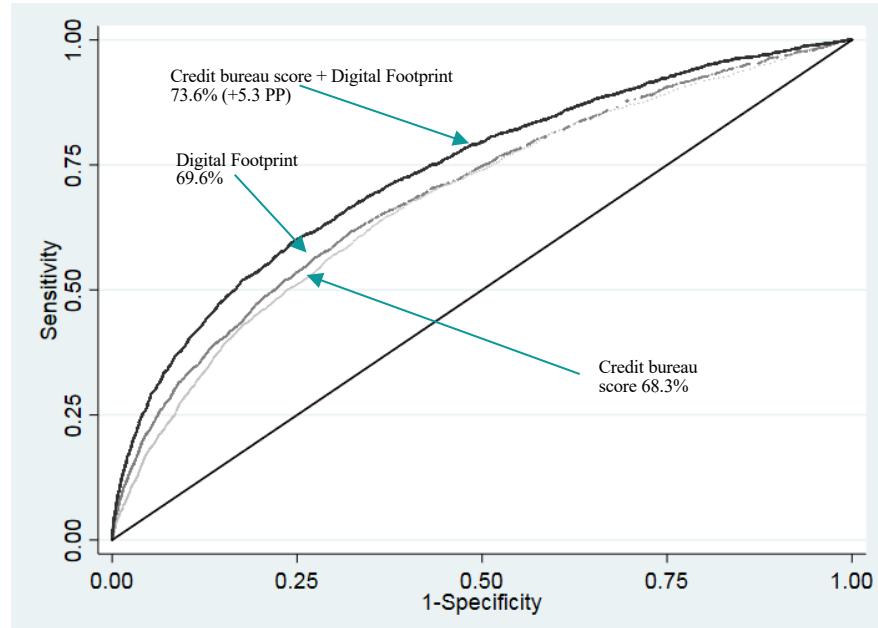
BANK OF ENGLAND

...application of ML techniques to the estimation of mortgage default probabilities - have improved the availability of mortgage credit [3].

Staff Working Paper No. 816

Machine learning explainability in finance:
an application to default risk analysis

Philippe Bracke, Anupam Datta, Carsten Jung and
Shayak Sen - August 2019



CREDIT COLLECTION AND RECOVERY

Definition of the procedures for optimal actions by customer segment (Next Best Action).

Managing strategies like Champion-Challenger.

Simulation of collection and recovery strategies portfolio impact.

Integration with previous scoring or rating and client data information.

Agenda for optimal collection and recovery procedures (internal or outsourced)

RECOVERY STRATEGY

From early unpaid up to legal procedures

Detalle de Cliente

Identidad y Nombre:	
APELLIDO DE TEST 4260704118540230 NOMBRE DE TEST4260704118540230	
Documento:	
DOC 4260704118540230	
Nº. Clientes:	
4260704118540230	
Categoría Cliente:	
1 - Cliente con patrón superior al activo	
Comprobaciones:	
PASAR A JUDICIAL CONVENIOS FECHA DOCUMENTACIÓN	
PASAR A JUDICIAL	

Fecha	Hora	Recomendado por	Recomendación	Figuera
30/01/2019	19:00:00	PABLO	TRIP - Llamada por incumplimiento de promesa	T01 - Titular Principal

Datos Generales		Relaciones		Contactos		Pagos		Garantías		Scoring		Datos Históricos	
Obligaciones													
Cod. Obligación	Producto	Días Mora	Ingreso Judicial	Moneda	Región	Oficina	Fecha Inicio	Fecha Venc.	Fecha Mora				
AM03011830	B110 - Prestamos Hipote..	10		Unidad Interxada	09-AG RONDEAU	09-AG RONDEAU	10/10/2006	10/10/2016	10/11/2015				
V000000014490P	B010 - Tarjeta Visa	0		Peso Uruguayos	09-AG RONDEAU	09-AG RONDEAU	29/07/2004						

Gestiones		Nota		Figura		Usuario		Obligación	
Fecha	Hora	TAR							
20/02/2019	16:44:24	RSRP - Convenio Pago							
01/12/2018	06:03:30	TACT - Compromiso de Pago Total							
17/11/2015	01:00:00	EBRD - Mail Reclamo							
17/11/2015	01:00:00	ACCE - Asignar Call Center Externo							

Recovery Strategy

From early unpaid up to legal procedures

© AIS Aplicaciones de Inteligencia Artificial

www.ais-int.com



Intelligent Decisions

C/ Muntaner 262 5º

08027 Barcelona, Spain EU

Phone number: +34 93 414 35 34

jmanuel.aguirre@ais-int.com

We are concerned about UN-GOALS

SUSTAINABLE DEVELOPMENT GOALS

