

9º Encontro de Utilizadores ESRI Portugal

Sistemas Analíticos: SAS e esri

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THE
POWER
TO KNOW.

Unívoca – uma só interpretação



The screenshot displays the SAS Enterprise Guide interface. The main window is titled "ESRI_ORIONGOLD_CUBE(SUGI)". The interface includes a menu bar (File, Edit, View, Code, Data, Describe, Graph, Analyze, OLAP, Add-In, Tools, Window, Help), a toolbar, and a main workspace. The workspace is divided into several panes:

- Cube View Manager:** Shows dimensions and filters. Dimensions include CUSTOMERS = All CUSTOMERS, ORG = All ORG, and PRODUCT = All PRODUCT. Filters include GEOGRAPHY: All GEOGRAPHY > County Abbreviation > SUB_REGION.
- Table:** Displays a data table with columns for Year (All Time, 2000, 2001, 2002) and rows for State (New Jersey, New York, Pennsylvania). The table shows the Sum of Total_Retail_Price for each state and year.
- ESRI Map:** A map of the New York City Metro Area showing the distribution of retail prices by state. A legend on the right indicates: New Jersey - \$97,717.12 (orange), Pennsylvania - \$156,035.59 (green), and New York - \$202,131.35 (purple).

The status bar at the bottom indicates "Ready" and "sasadm as SAS Administrator, connected to sugi29042.na.sas.com:8561/Foundation".

Year	All Time	2000	2001	2002
New Jersey	\$97,717.12	\$15,508.60	\$22,877.74	\$21,347.60
New York	\$202,131.35	\$30,955.20	\$41,547.26	\$49,308.50
Pennsylvania	\$156,035.59	\$26,936.50	\$30,767.07	\$33,075.54



ALERTAS

Quando devo reagir? Que acções?



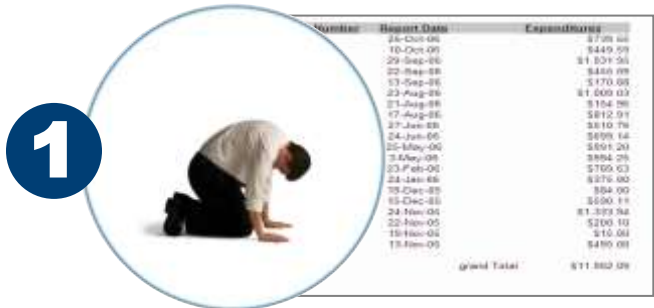
QUERY DRILLDOWN (OR OLAP)

Qual é o problema ? Como encontro as respostas?



RELATÓRIOS AD HOC

Quantos? Com que frequência? Onde e Quando?



RELATÓRIOS STANDARD

O quê e quando sucedeu?



OPTIMIZAÇÃO

Como melhoramos? Qual a melhor decisão num problema complexo?



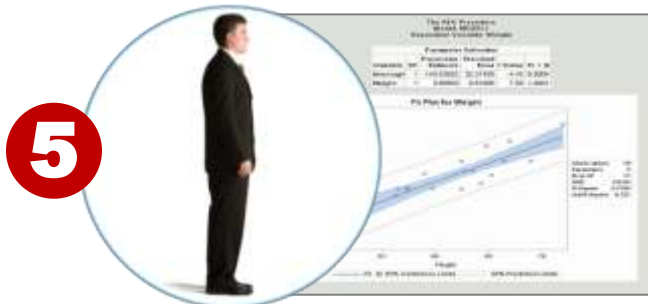
MODELAÇÃO PREDITIVA

O que vai acontecer em determinada situação? Como afectará a minha actividade?



PREVISÃO

E se a tendência continuar? Que recursos necessito e quando?



ANÁLISE ESTATÍSTICA

Porque é que sucedeu? Que oportunidades perdi?

Heat Map Samples¹



The Innovation Heat Map from SAS and ESRI
Track global innovation for a view of the past
and a vision of the future

World Economic Forum - Davos



Business Analytics Framework

Business
Solutions

Reporting

Analytics

Data Management

sas

Business Analytics Framework

Business
Solutions

Reporting

Analytics

Data Management

sas

SAS® Data Management

Enterprise Connectivity

Data Quality

ETL (Extract, Transform, Load)

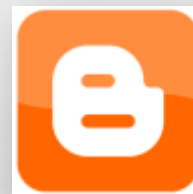
Metadata Management

Data Migration & Synchronization

Data Federation

Master Data Management

Unstructured Data

The Twitter logo, featuring the word "twitter" in a light blue, lowercase, rounded font with a white outline, set against a white rectangular background.The Facebook logo, the word "facebook" in a white, lowercase, sans-serif font, set against a dark blue rectangular background.The YouTube logo, the word "You" in black and "Tube" in white, both in a bold sans-serif font, set against a red rounded rectangular background.

SAS® Analytics

Data Visualization

Statistics

Data Mining

Forecasting & Econometrics

Quality Improvement

Operations Research

Text Analytics

Model Management and Deployment

SAS® Reporting

Dashboards

Business Visualization

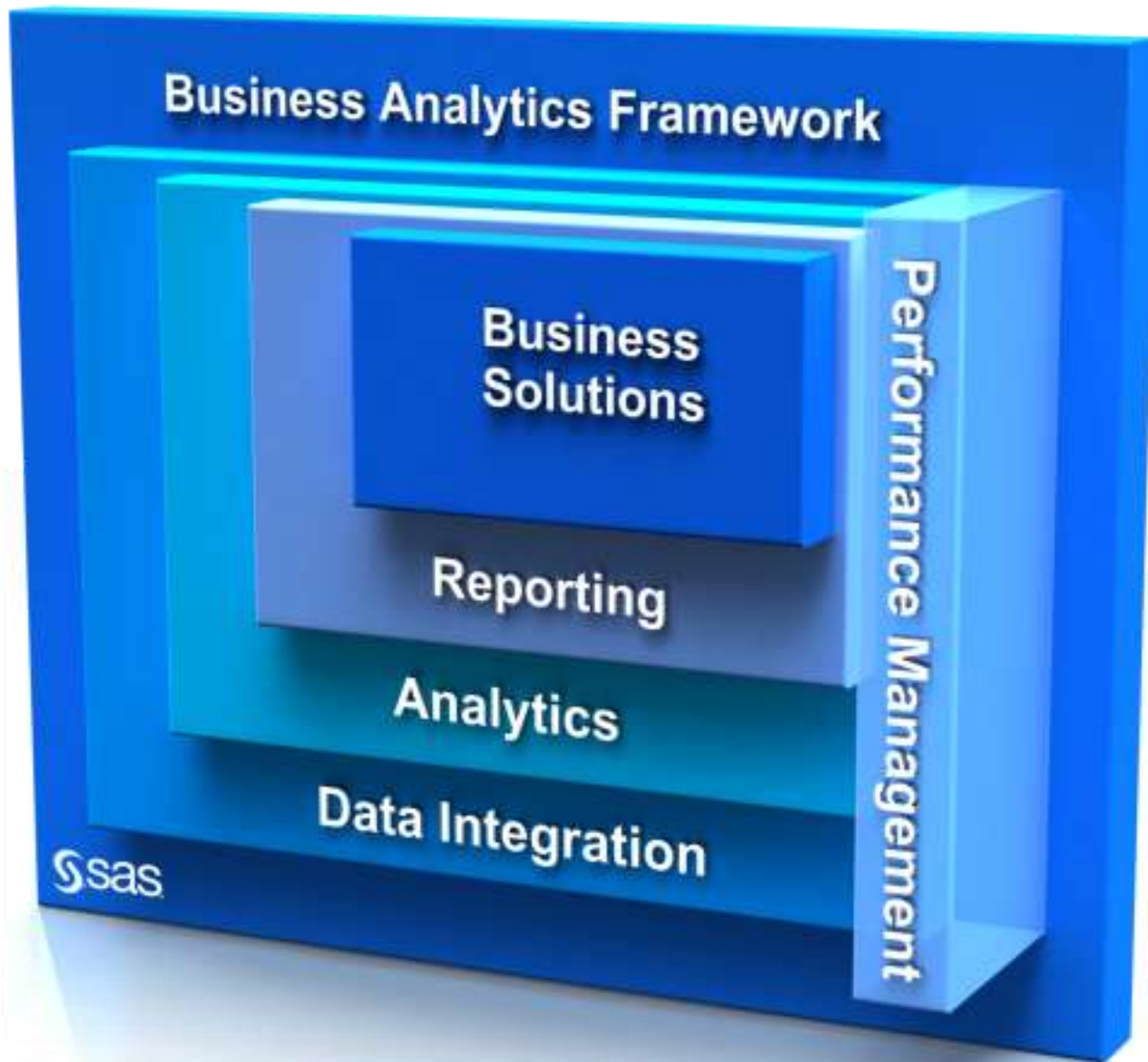
Web-based Reporting & Authoring

Microsoft Office Integration

Query & Analysis

Guided Analysis

Integrated Analytics



SAS[®] Bridge for ESRI

SAS and ESRI have jointly produced the SAS[®] Bridge for ESRI, which links SAS and ESRI software.

SAS[®] Bridge for ESRI combines the power of SAS with the spatial analysis and cartographic capabilities of ESRI's [ArcGIS](#) suite.

With the depth and breadth of both SAS and ESRI, customers are better equipped to explore, understand, analyze and deliver sound spatially-enabled business intelligence.

The SAS Bridge for ESRI is a point-and-click interface between ArcGIS and SAS and provides foundation level linkage between the two platforms. .NET classes are provided for customers to develop their own interface and applications. The SAS Bridge for ESRI allows for the import and export of both attribute and coordinate data from point, line, polygon, and raster features from ArcGIS to SAS.

Integration Overview SAS / ESRI

SAS® Bridge for ESRI

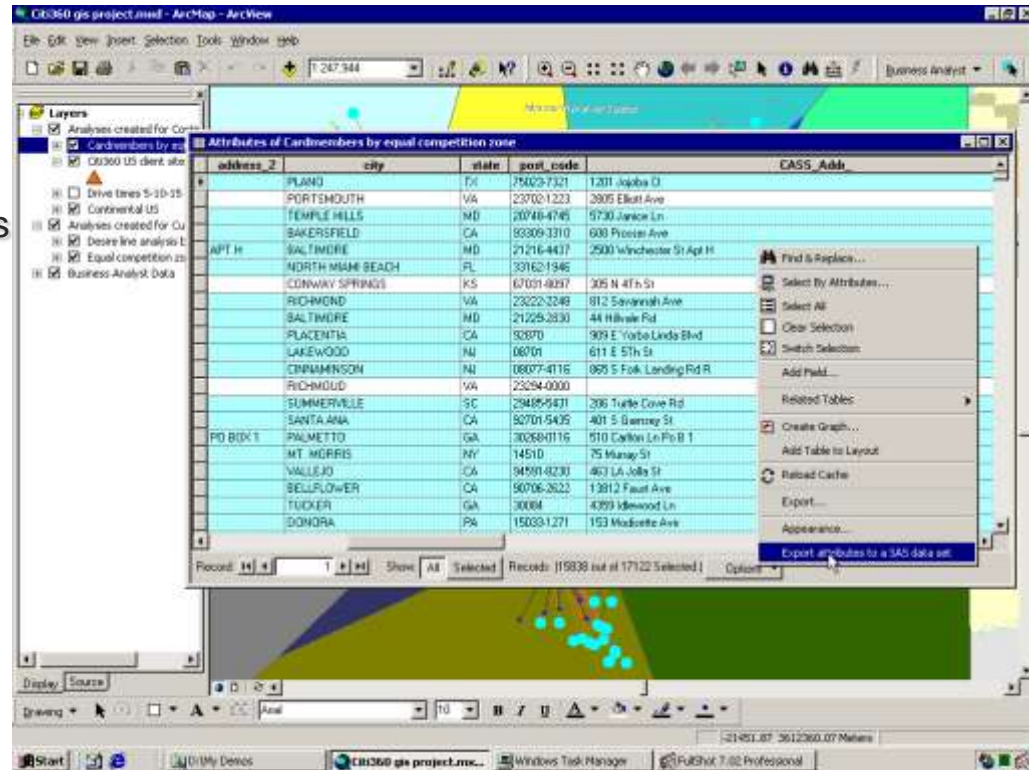
It allows ESRI users to:

- Read SAS Data
- Export ESRI data to SAS datasets & access SAS metadata
- Execute stored processes
- Develop customized applications

New capacities:

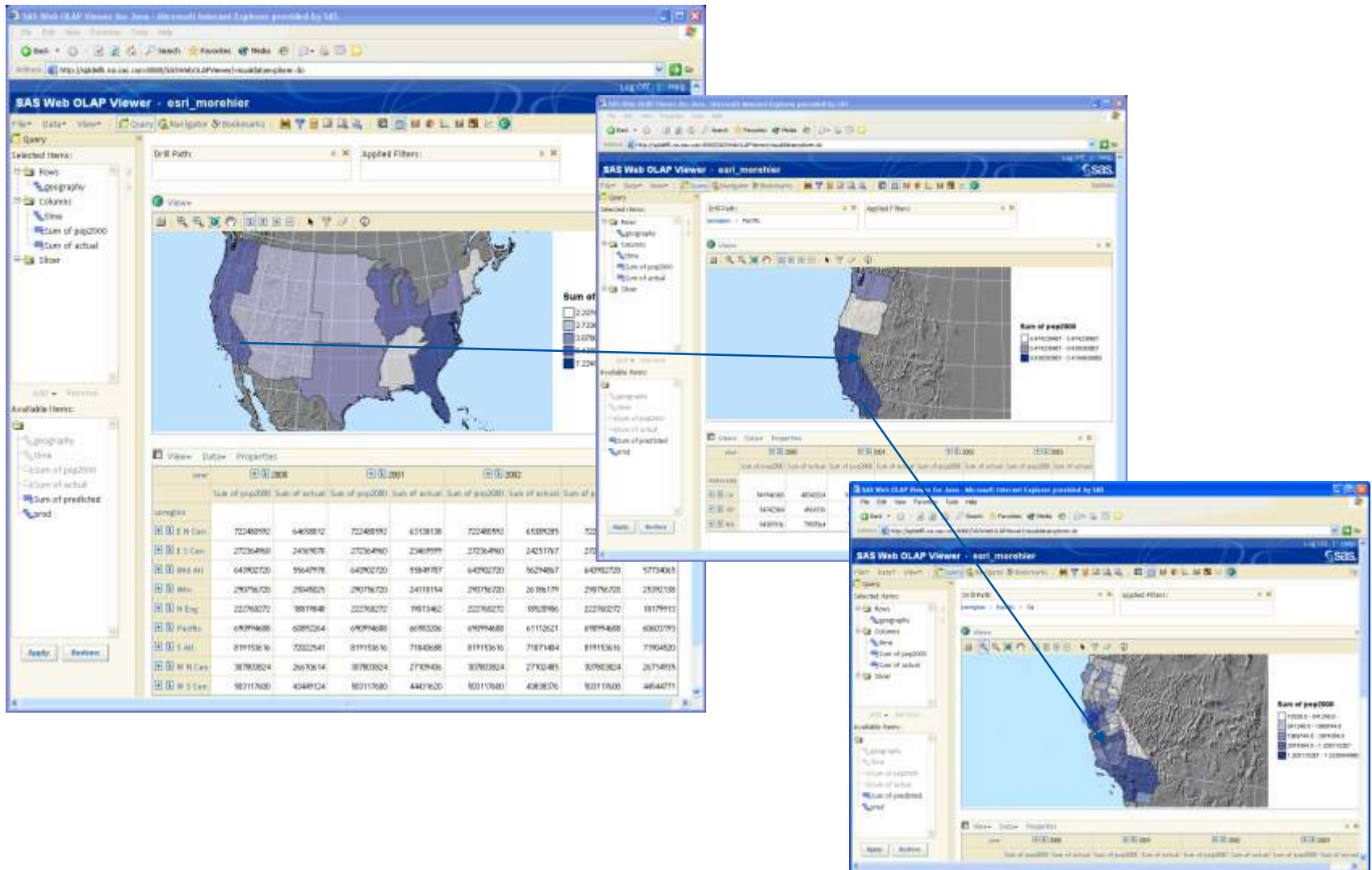
- Remote access to SAS servers (with SAS Integration Technologies)
- Geometry export
- Raster export
- The export of graphics & data

It's basically a Bridge from ESRI clients... to SAS



ESRI's ArcMap Desktop Client Exporting ArcGIS data to a SAS Dataset

SAS Web OLAP Viewer 3.1



SAS® Enterprise Guide® 4.1

SAS Enterprise Guide - Citi BI Product Summit

File Edit View Code Data Describe Graph Analyze OLAP Add-In Tools Window Help

ESRI_ORIONGOLD_CUBE(SUGI)

Back Forward View Designer MDX Editor Pivot Measure Filter Bookmark View Manager Graph ESRI Map Cube Explorer

Cube View Manager x CUSTOMERS = All CUSTOMERS ORG = All ORG PRODUCT = All PRODUCT

Cube Dimensions Tree Preferences for this cube Shortcuts for this cube ESRI Map

Data to Map: All Time Measure: Sum of Total_Retail_Price

\$97,717.12 \$202,131.35

Show measure values

Labels and Legend: Show location labels on map Show map legend [More Map Options...](#)

GEOGRAPHY: All GEOGRAPHY > Country Abbreviation > SUB_REGION

All Time					
Year	All Time	2000	2001	2002	
<i>Measures/Level</i>					
<i>State</i>					
New Jersey	\$97,717.12	\$15,508.60	\$22,877.74	\$21,347.60	
New York	\$202,131.35	\$30,955.20	\$41,547.26	\$49,308.50	
Pennsylvania	\$156,035.59	\$26,936.50	\$30,767.07	\$33,075.54	

Drag map to pan

states
Sum of Total_Retail_Price: All Time

- New Jersey - \$97,717.12
- Pennsylvania - \$156,035.59
- New York - \$202,131.35

Ready sasadm as SAS Administrator, connected to sugi29042.na.sas.com:8561/Foundation

SAS e ESRI Joint Focus Areas

- Key Industries

Industries that are heavy users of both technology include:

- Public Sector
- Academia
- Retail
- Financial Services
- Telecommunications
- Utilities
- Oil & Gas
- Transportation



SAS Alliance Program Level:
Gold



SAS & ESRI some Case Studies

- **Copenhagen University** <http://www.sas.com/success/uofcopenhagen.html>
 - These insights can help governments and businesses alike focus their investments more effectively: whether for building hospitals, setting up bank branches where they're most needed, or choosing the most profitable placements for advertising.

- **Benefits:**

"Even though we take existing knowledge as our point of departure, GIS and business intelligence have not previously been combined in this way, so we are treading new ground. It takes practice to set the right parameters. When these are in place, however, we will certainly get interesting results."

Professor Hans Oluf Hansen – Department of Economy, Copenhagen University



- **US Census Bureau**

- **Challenge:**

- Analyze spatial data for K-12 school populations in the United States, translating into intelligence needed for good public policy that promotes enhancements in education.
- *"SAS and the SAS Bridge for ESRI help me understand and produce relevant, high-quality educational demographics that can be used to inform and improve education in the US."*

Doug Geverdt - Project Manager, Statistician and Demographer



Quem somos e o que fazemos

[video](#)

Referências



The screenshot displays the SAS website's partner directory for ESRI. The top navigation bar includes links for 'Log In', 'Worldwide Sites', and 'Contact Us', along with a search bar. The main navigation menu features 'Home', 'Products & Solutions', 'Customer Success', 'Partners', 'Company', and 'Support & Training'. The 'Partners' section is active, showing a list of categories: 'Alliance Programs', 'Application Process', and 'Partner Directory'. The main content area is titled 'PARTNERS / PARTNER DIRECTORY' and features a section for 'ESRI'. This section includes a headline, a paragraph describing the partnership, a 'Learn More' button, and a 'Partner or Business Overview' section. On the right side, there is an 'ESRI Technology Corporate Alliance' logo and a 'MORE ON THIS TOPIC' section with links to 'Success Stories' and 'Contacts'. The browser's address bar shows 'Done' and 'Internet | Protected Mode: Off'.

sas THE POWER TO KNOW.
Providing software solutions since 1976

Log In Worldwide Sites Contact Us
NEWS EVENTS CONSULTING CAREERS RESOURCE CENTER

Home Products & Solutions Customer Success **Partners** Company Support & Training

PARTNERS / PARTNER DIRECTORY

Partners

- Alliance Programs
- Application Process
- **Partner Directory**

ESRI

The partnership between SAS, the market leader in business intelligence, and ESRI, the leader in geographic information systems (GIS) software, will significantly increase the customers' ability to deliver intelligence in spatially enabled applications. Both advanced analytics and spatial relationships are key elements in solving problems that need to physically evaluate location as part of strategic decision-making.

In the Spotlight

[HEAD MORE](#)

[Learn more about SAS Rodeo for ESRI](#)

Partner or Business Overview

ESRI is the world's leading provider of GIS software components, running on Windows 95/98/2000/CE/NT and UNIX platforms. Established in 1969, ESRI has GIS software installed at more than 300,000 client sites, with more than 1,000,000 users worldwide. The company's goal is to provide users with comprehensive tools to help them quickly and efficiently manage and use geographic information to make a real difference in the world around them. Since early 2001, SAS and ESRI have been working together to jointly solve customer business questions. This new relationship will introduce products that will allow joint customers to stay in their existing SAS or ESRI environments, and be able to access data and applications from either provider.

The SAS and ESRI union will enable organizations to apply best-of-breed technology to solve business questions that inherently consider the impact of spatial relationships as part of the intelligence creation process. The combined power and flexibility which SAS and ESRI will be able to offer will set a new standard in the industry.

ESRI Technology CORPORATE ALLIANCE

MORE ON THIS TOPIC

- Success Stories
- Contacts

Share

Done Internet | Protected Mode: Off 100%

Contactos

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