

# Pentaho Day

# 12/05/17

Palestrante : Marco Antonio Smanioto



[www.simple4it.com](http://www.simple4it.com)



- Integração com MOIP
- Coletas Automática
- Dicas de Projeto

Marco Antonio Smanioto



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# Tópicos

- Quem Sou
- Quem é a Simple4it
- Sobre o Projeto - Overview
- Estruturação dos Dados
- Coletas Automáticas
- Integração via MOIP
- Dicas de Projeto



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# Quem sou ?

- Atuando na área de T.I. há mais de 17 Anos (2000)
  - Manutenção de Computadores, Web (Asp/Macromedia), Delphi, Instrutor na Microlins, Help-Desk, Redes, Servidores Windows e Linux, Consultoria ERP, Gerência de T.I./Administrativa, Montagem da Startup Simple4it.
- Área de consultoria de Negócios(ERP – TOTVS) 14 Anos (2003)
- Área de B.I. – 5 Anos (2012)
- Início dos estudos e trabalhos com Pentaho – 2013
- Início da Startup em 2015
- Fundador do Grupo PENTAHO no Telegram(278)



# Quem é a Simple4it

## Simplicidade & Compromisso

- Servidores Cloud dedicados com monitoramento 24/7 e de nossa responsabilidade.
- Consultoria em Cloud-Computing, Infra-Estrutura, Web, Firewall, Backups, ERP, Business Intelligence, Workflow.



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# S4it - Brasil



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# S4it – Europa

Buxton  
**WEB**  
Design



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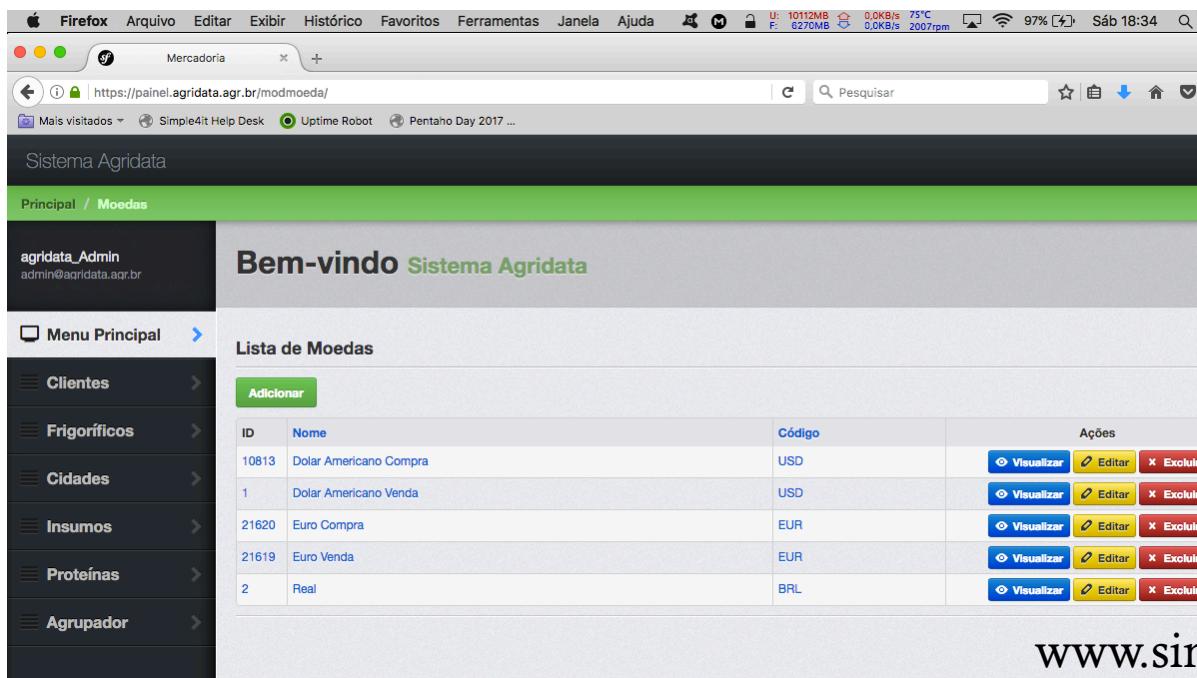
# Sobre o Projeto

- Mais de 16 anos de dados armazenados de forma descentralizada dificultando o processo de consulta e cruzamento de dados.
- Coleta de dados manuais de diversas fontes da internet.
- Armazenamento em forma de planilhas.



# Estruturação dos Dados

- Ambiente CENTOS com uma plataforma baseada em um Framework PHP (Symfony) + NGINX.



The screenshot shows a Firefox browser window with the following details:

- Address Bar:** https://panel.agridata.agr.br/modmoeda/
- Toolbar:** Arquivo, Editar, Exibir, Histórico, Favoritos, Ferramentas, Janela, Ajuda, system icons, and a search bar.
- Header:** Mercadoria, Pesquisar, and other navigation links.
- Content Area:**
  - Sistema Agridata** header.
  - Navigation Sidebar:** Principal / Moedas, agridata\_Admin, admin@agridata.agr.br, and a menu with Clientes, Frigoríficos, Cidades, Insumos, Proteínas, and Agrupador.
  - Main Content:** Bem-vindo Sistema Agridata, Lista de Moedas, and a table with the following data:

ID	Nome	Código	Ações
10813	Dolar Americano Compra	USD	<a href="#">Visualizar</a> <a href="#">Editar</a> <a href="#">Excluir</a>
1	Dolar Americano Venda	USD	<a href="#">Visualizar</a> <a href="#">Editar</a> <a href="#">Excluir</a>
21620	Euro Compra	EUR	<a href="#">Visualizar</a> <a href="#">Editar</a> <a href="#">Excluir</a>
21619	Euro Venda	EUR	<a href="#">Visualizar</a> <a href="#">Editar</a> <a href="#">Excluir</a>
2	Real	BRL	<a href="#">Visualizar</a> <a href="#">Editar</a> <a href="#">Excluir</a>



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# Estruturação dos Dados

- Estruturação do banco de dados Relacional(Mysql)



DBeaver - General - [ <MySQL - db\_agrifatto> Script-37 ]

Rollback MySQL - db\_agrifatto db\_agrifatto 10

\*<MySQL - db\_agrifatto> Script-37

```
-- retorna o tamanho de cada tabela de um banco MySQL;
SELECT table_name AS "Tables", round(((data_length + index_length) / 1024 / 1024), 2) "Size in MB"
FROM information_schema.TABLES
WHERE table_schema = 'db_agrifatto'
ORDER BY (data_length + index_length) DESC;
```

TABLES Explain Plan Execution Log Output

SELECT table\_name AS "Tables", round( Enter a SQL expression to filter results

	Tables	Size in MB
1	preco_reposicao	4.253,75
2	preco_boigordo	3.169,67
3	bkp_boi_gordo	31,56
4	preco_insumos	8,48
5	preco_carneatacado	7,06
6	preco_mercado_futuro	6,55
7	preco_proteinas	5,03
8	cad_cidades	1,86
9	preco_rebanho_municipio	0,42
10	aux_det_grupo_cidade	0,39
11	cad_endereco	0,33
12	preco_moeda	0,16
13	volume_abatido	0,14
14	cad_frigorificos	0,11
15	preco_cmdty	0,08
16	cad_raca	0,06
17	cad_insumos	0,06

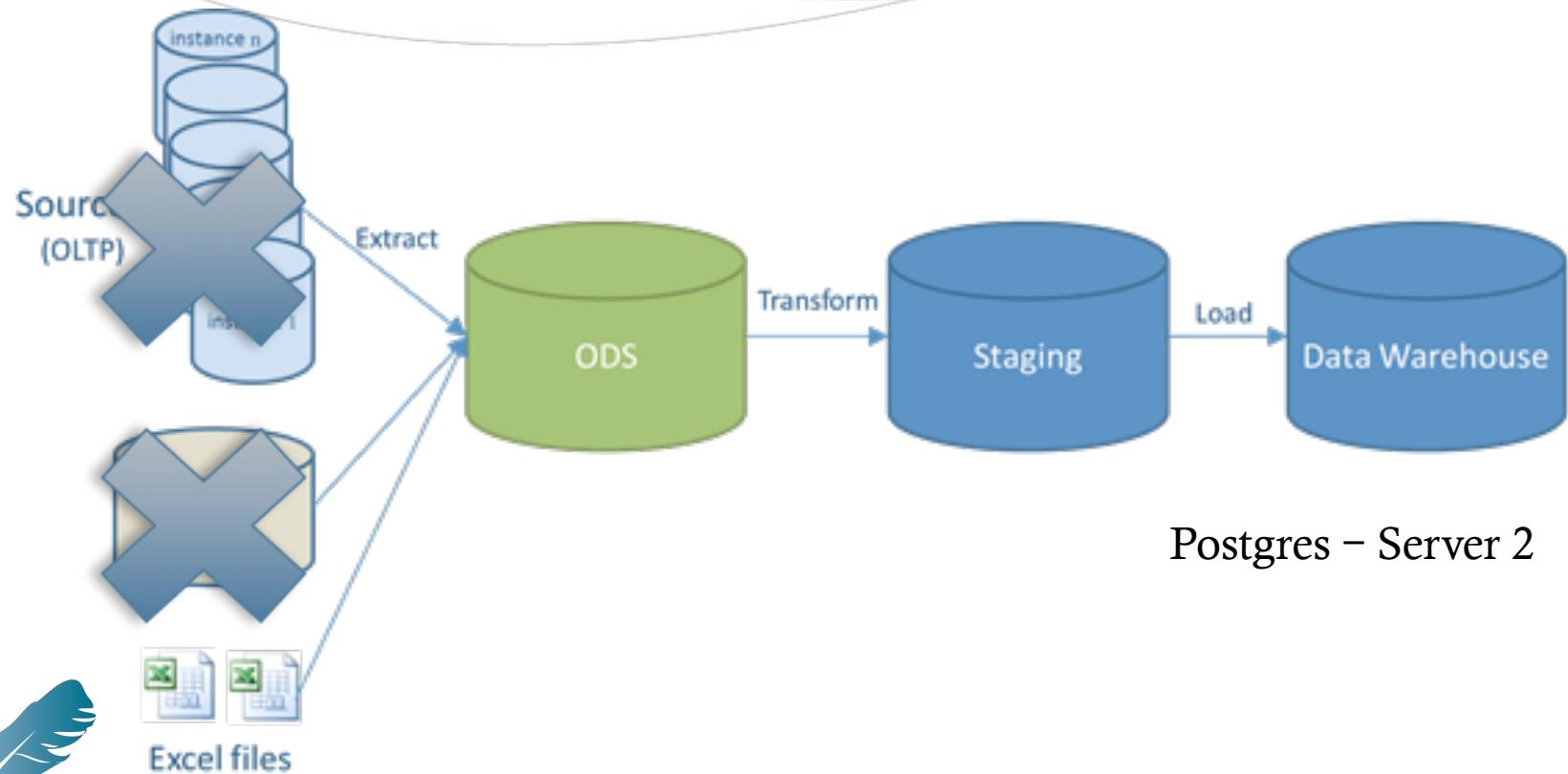
**23.762.154 registros na Preco Reposição**

**13.616.303 registros na Preco Boi Gordo**

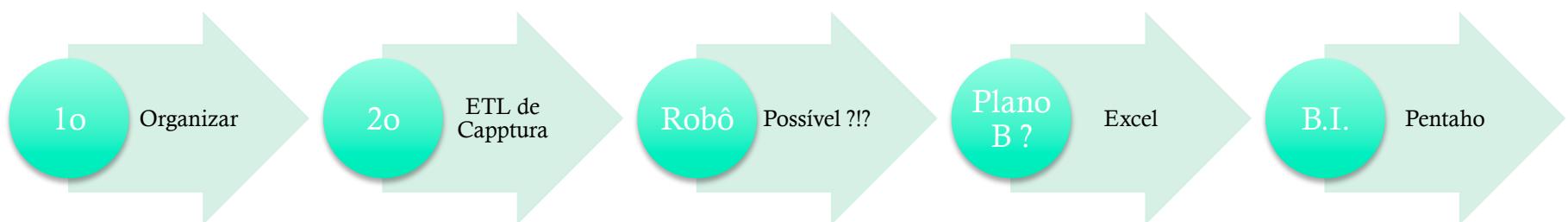


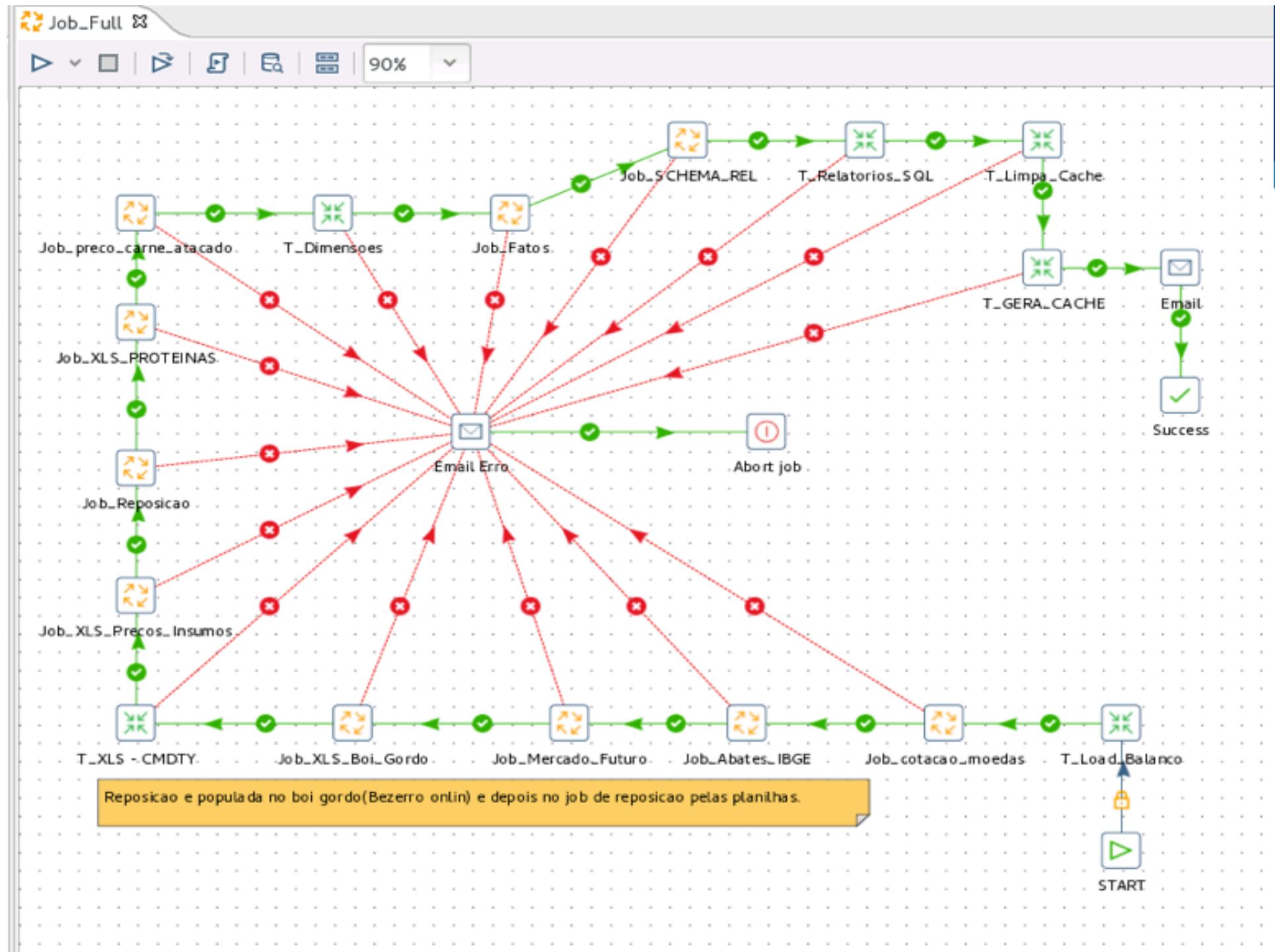
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# Estruturação dos Dados

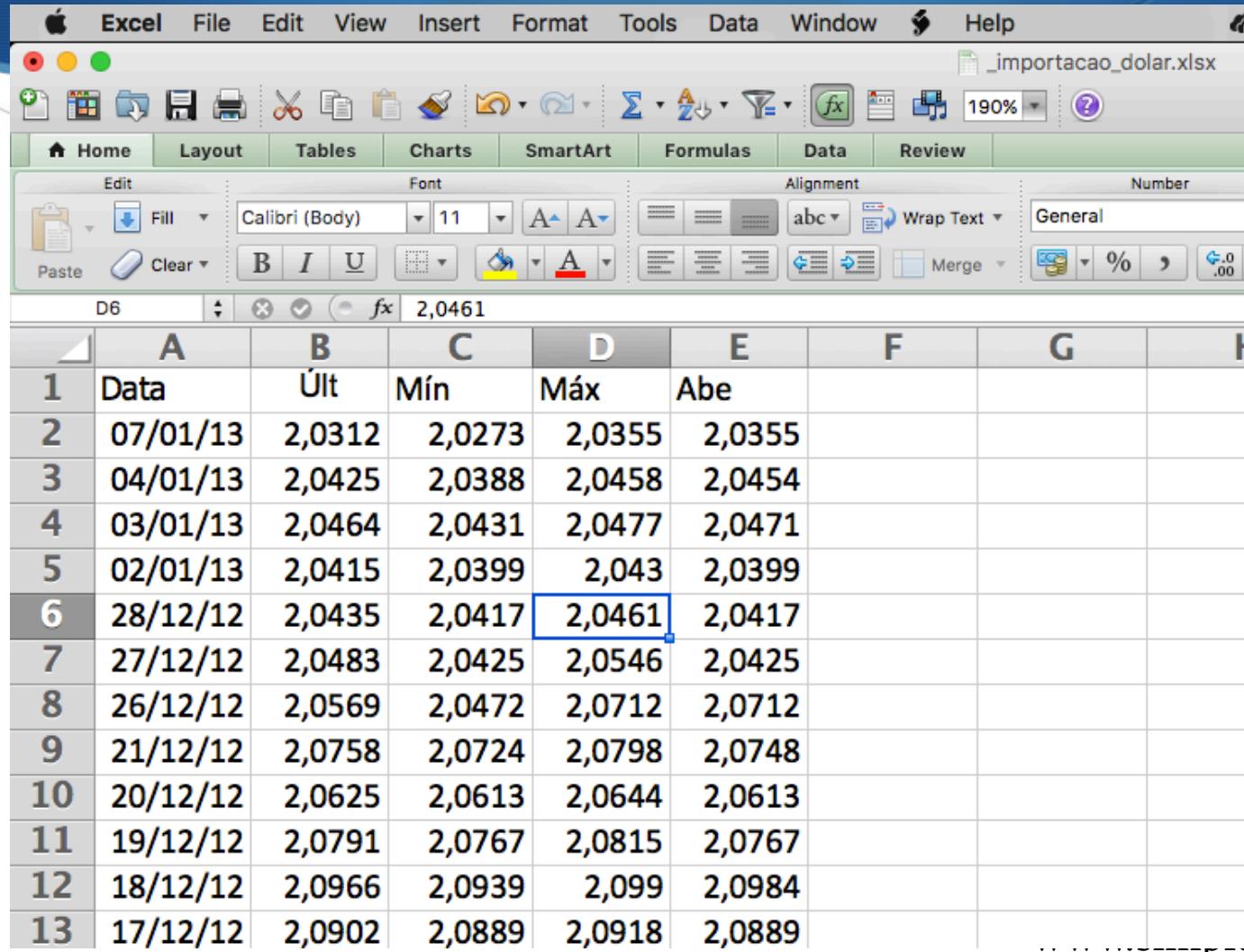


# Quais os Passos ?





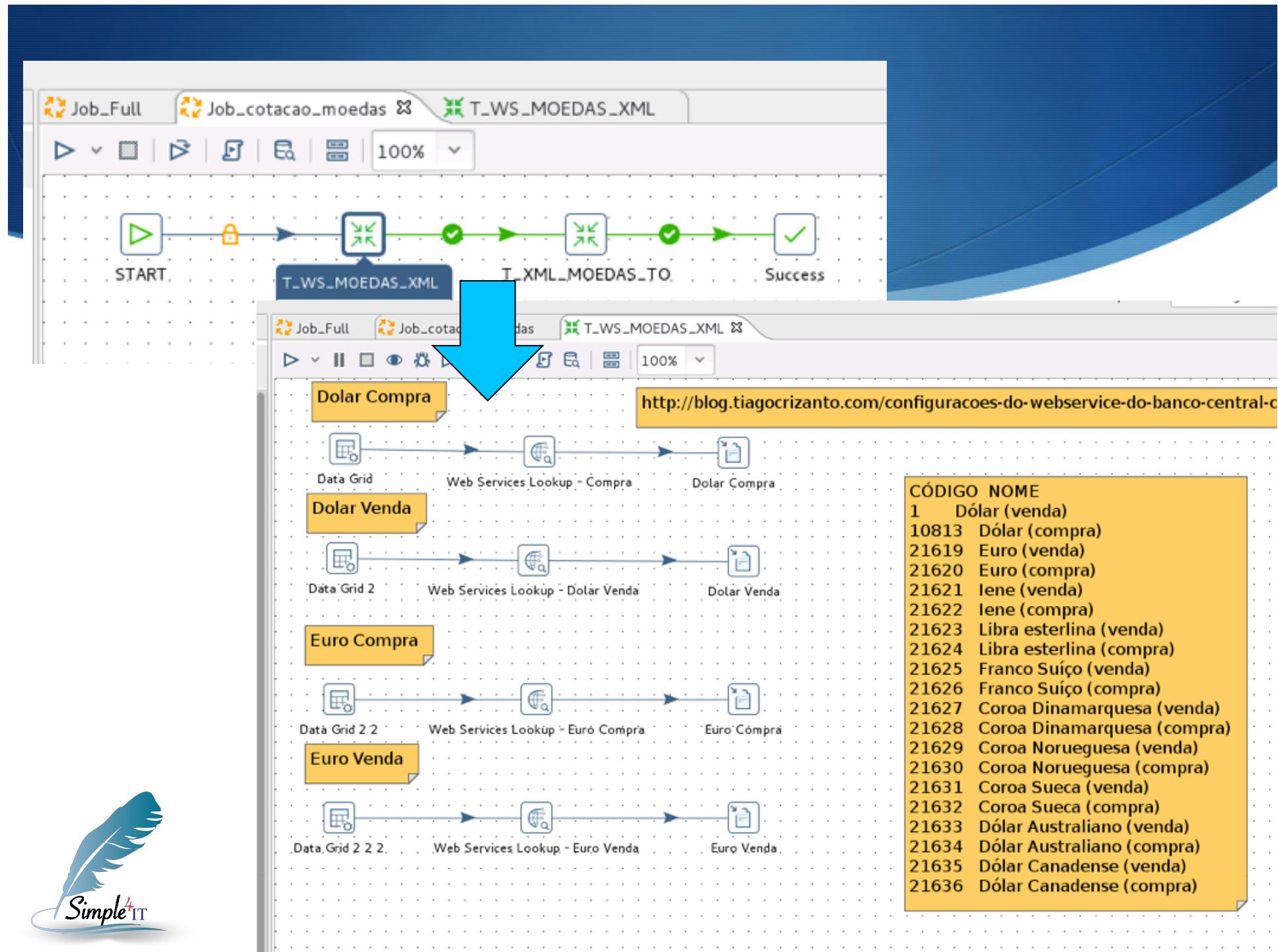
# Ex: Histórico do Dólar

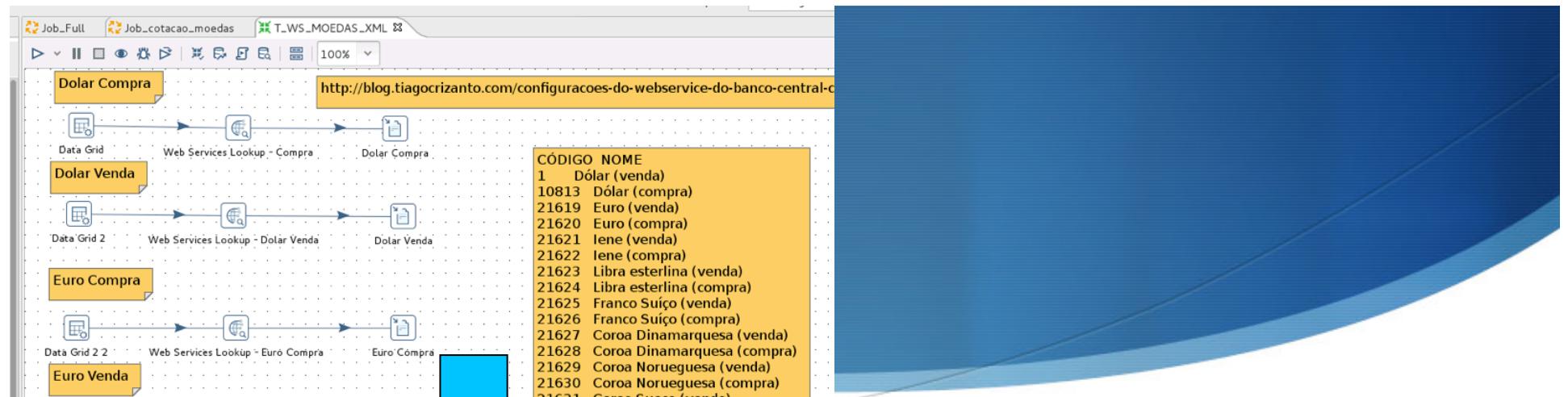


The screenshot shows a Microsoft Excel spreadsheet titled '\_importacao\_dolar.xlsx' with the file menu open. The ribbon tabs include Home, Layout, Tables, Charts, SmartArt, Formulas, Data, and Review. The Home tab is selected. The formula bar shows the cell reference D6 and the value 2,0461. The main content is a table with 13 rows and 5 columns. The columns are labeled A through E. Column A contains row numbers from 1 to 13. Columns B through E contain date and price information. Row 6 is highlighted with a blue border.

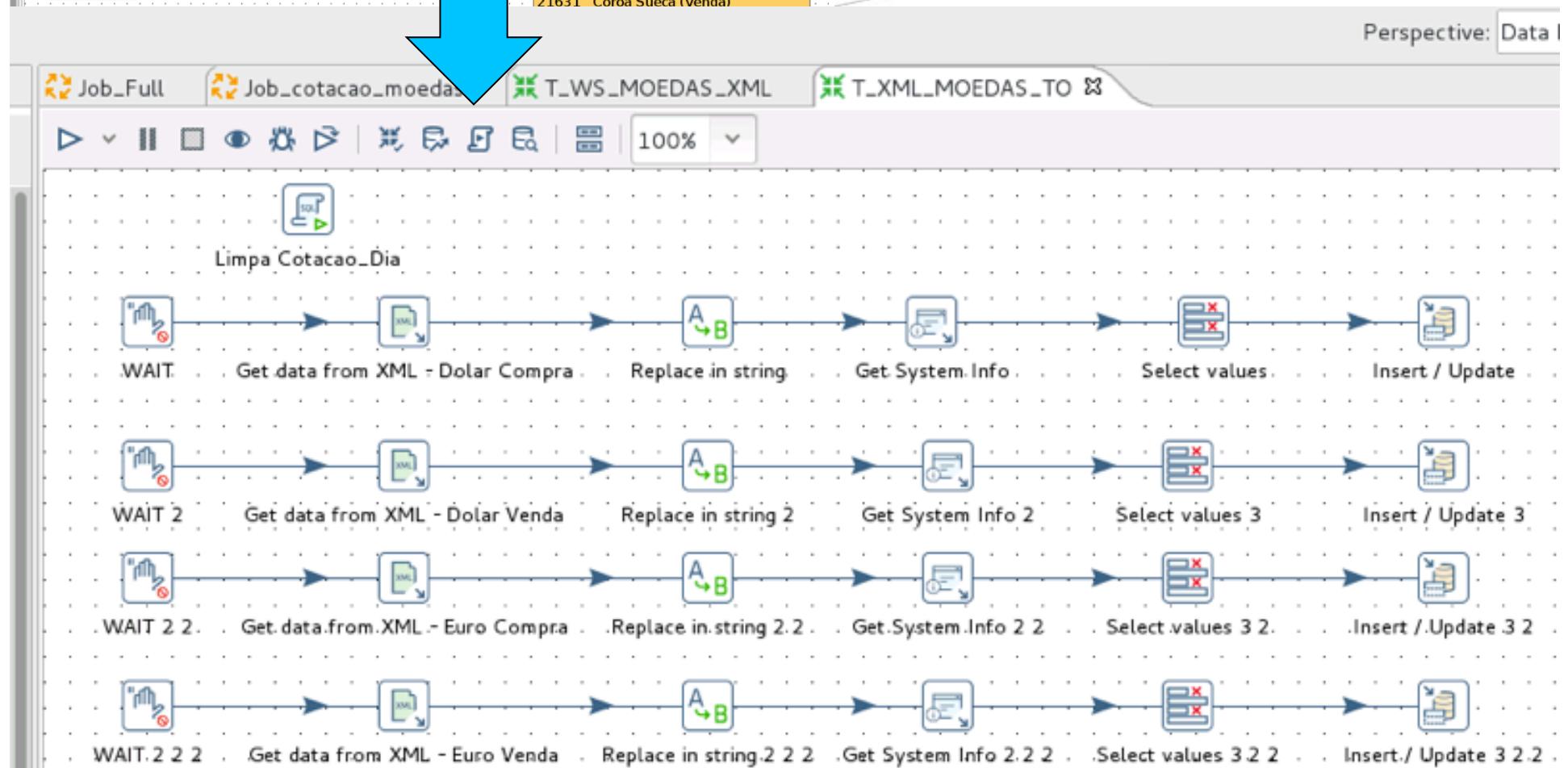
1	Data	Últ	Mín	Máx	Abe		
2	07/01/13	2,0312	2,0273	2,0355	2,0355		
3	04/01/13	2,0425	2,0388	2,0458	2,0454		
4	03/01/13	2,0464	2,0431	2,0477	2,0471		
5	02/01/13	2,0415	2,0399	2,043	2,0399		
6	28/12/12	2,0435	2,0417	2,0461	2,0417		
7	27/12/12	2,0483	2,0425	2,0546	2,0425		
8	26/12/12	2,0569	2,0472	2,0712	2,0712		
9	21/12/12	2,0758	2,0724	2,0798	2,0748		
10	20/12/12	2,0625	2,0613	2,0644	2,0613		
11	19/12/12	2,0791	2,0767	2,0815	2,0767		
12	18/12/12	2,0966	2,0939	2,099	2,0984		
13	17/12/12	2,0902	2,0889	2,0918	2,0889		







Perspective: Data I



# Coletas Automáticas

- ❖ O que é ?
- ❖ Qual a Ideia ?



# De onde eu coletó ?

The screenshot shows a web browser window with a blue header bar. The main content is a table of commodity price adjustments from the BMF Bovespa website. The table has columns for Mercadoria (Commodity), Vencimento (Expiry), Preço de ajuste anterior (Previous Adjustment Price), Preço de ajuste Atual (Current Adjustment Price), Variação (Variation), and Valor do ajuste por contrato (R\$) (Value of adjustment per contract (BRL)). The table includes data for AUD, BGI, BRI, CAD, and CCM commodities across various expiry dates like K17, M17, J17, etc.

Mercadoria	Vencimento	Preço de ajuste anterior	Preço de ajuste Atual	Variação	Valor do ajuste por contrato (R\$)
AUD - Dólar comercial australiano	K17	2.357,0250	2.366,5690	9,5440	572,64
	M17	2.372,7960	2.382,1460	9,3500	561,00
BGI - Boi gordo	J17	136,20	136,80	0,60	198,00
	K17	136,06	136,57	0,51	168,30
	M17	136,75	137,17	0,42	138,60
	N17	138,66	139,00	0,34	112,20
	V17	142,40	142,46	0,06	19,80
	X17	142,85	142,91	0,06	19,80
	Z17	142,85	143,35	0,50	165,00
	M17	10.909	10.827	-82	820,00
	K17	2.360,1290	2.377,8430	17,7140	1.062,84
	M17	2.378,4280	2.396,2340	17,8060	1.068,36
CCM - Milho	K17	27,17	26,94	-0,23	103,50
	U17	27,40	27,45	0,05	22,50
	X17	28,46	28,00	-0,46	207,00

# Coletas Automáticas

/root/.rbenv/shims/ruby /home/pentaho/scot\_atacado/exec.rb

/root/.rbenv/shims/ruby /home/pentaho/scot/exec.rb

/root/.rbenv/shims/ruby /home/pentaho/bmf\_lumis/exec.rb



```
Marco — root@ns392845:~ — ssh root@bi.agridata.agr.br — 179x50

require 'mechanize'
require 'sqlite3'
require_relative 'lib/query_bmflumis_page'

=begin
db.execute <<-SQL
  create table quotes (
    id integer primary key autoincrement,
    date date,
    ticker varchar(10),
    vencimento varchar(20),
    ajuste_anterior varchar(20),
    ajuste_atual varchar(20),
    variação varchar(20),
    ajuste_contrato varchar(20),
    created_at datetime
  );
SQL
=end

log = Logger.new(STDOUT)
log.info('Started')

begin
  db = SQLite3::Database.new('/home/pentaho/bmflumis/data.db')
  date = Date.today
  page = QueryBmflumisPage.new(date)
  tickers = %w(ACF BGI CCM DOL ETH IAP IGM IND ISP SJC)
  tickers.each do |ticker|
    log.info("Ticker: #{ticker}")
    results = page.parse_quote(ticker)
    if !results.nil? && results.size > 0
      log.info("Size: #{results.size}")
      results.each do |result|
        db.execute("INSERT INTO quotes (date, ticker, vencimento, ajuste_anterior, ajuste_atual, variação, ajuste_contrato, created_at)
          VALUES (?, ?, ?, ?, ?, ?, ?, datetime('now','localtime')), [date.strftime('%Y-%m-%d'), ticker, result[0], result[1], result[2], result[3], result[4]])")
      end
    else
      log.info('Size: 0 or nil')
    end
  end
rescue => err
  log.fatal('Caught exception; exiting')
  log.fatal(err)
end

log.info('Finished')
[root@ns392845 ~]#
```



# E aqui o ciclo segue...

Applications ▾ Places ▾ Examine preview data ▾ Wed 19:46

File Editar View Action

View Design

Explorer Transformações T\_MERCADO\_FUTU Conexões

Nome do Step TI - SQLITE - BMF AUTOMATICO BGI

Connection sqlite\_bmfAutomatico

Get SQL select statement...

Letura de Tabela

SQL

```
select * from quotes  
where ticker = 'BGI'  
order by created_at desc
```

Examine preview data

Rows of step: TI - SQLITE - BMF AUTOMATICO BGI (1000 rows)

id	date	ticker	vencimento	ajuste_anterior	ajuste_atual	variacao	ajuste_contrato	created_at	
1	42693	2017-04-11	BGI	J17	136,49	136,20	-0,29	95,70	2017-04-11 22:45:03
2	42694	2017-04-11	BGI	K17	136,04	136,06	0,02	6,60	2017-04-11 22:45:03
3	42695	2017-04-11	BGI	M17	137,29	136,75	-0,54	178,20	2017-04-11 22:45:03
4	42696	2017-04-11	BGI	N17	138,43	138,66	0,23	75,90	2017-04-11 22:45:03
5	42697	2017-04-11	BGI	V17	141,85	142,40	0,55	181,50	2017-04-11 22:45:03
6	42698	2017-04-11	BGI	X17	142,30	142,85	0,55	181,50	2017-04-11 22:45:03

Mas você usou Tecnologia  
Externa ? Ruby ?

Yes!



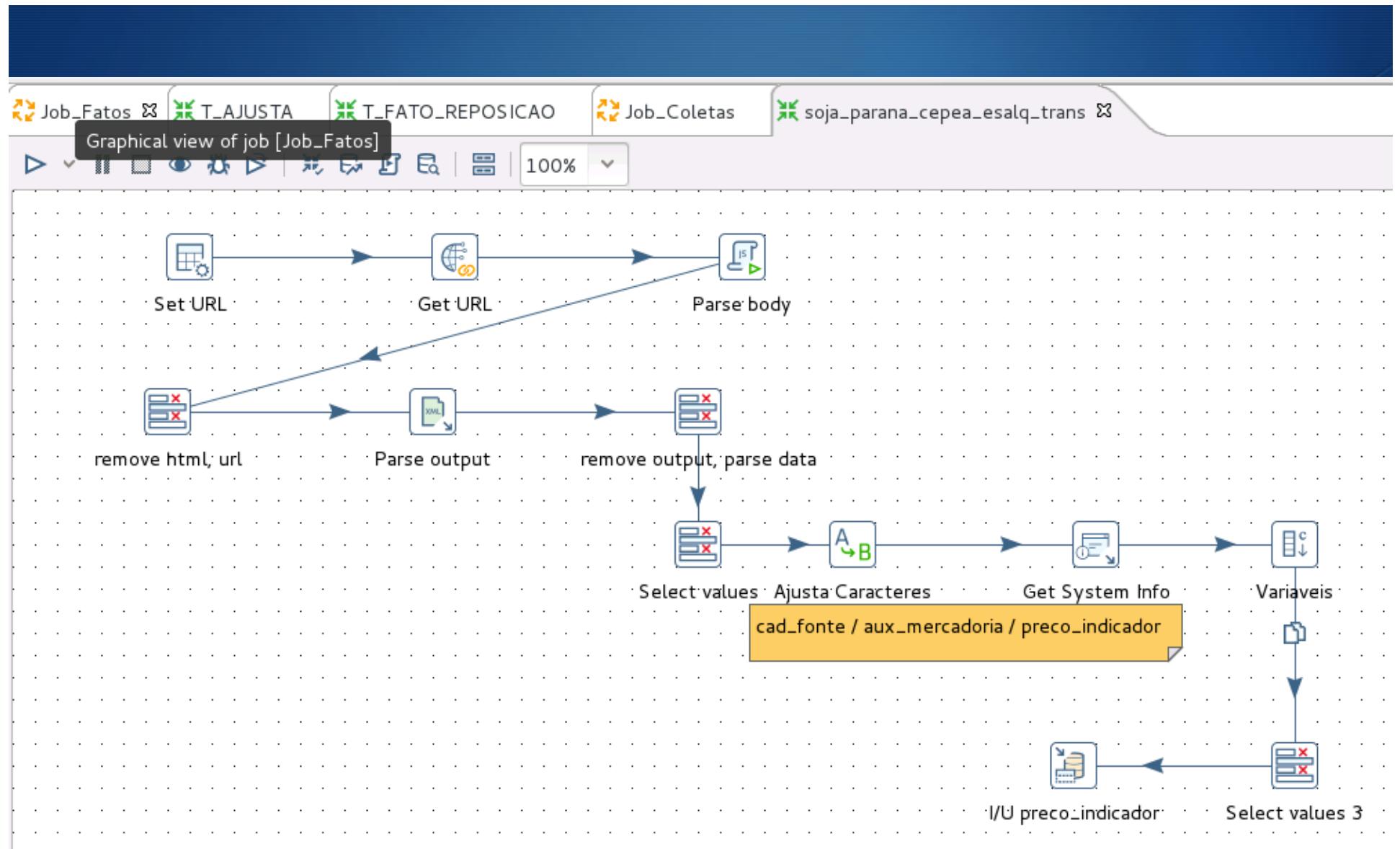
Você ainda usa Tecnologia  
Externa para coleta  
Automatizada ?





**“Talk is cheap. Show me the code.”**

– Linus Torvalds



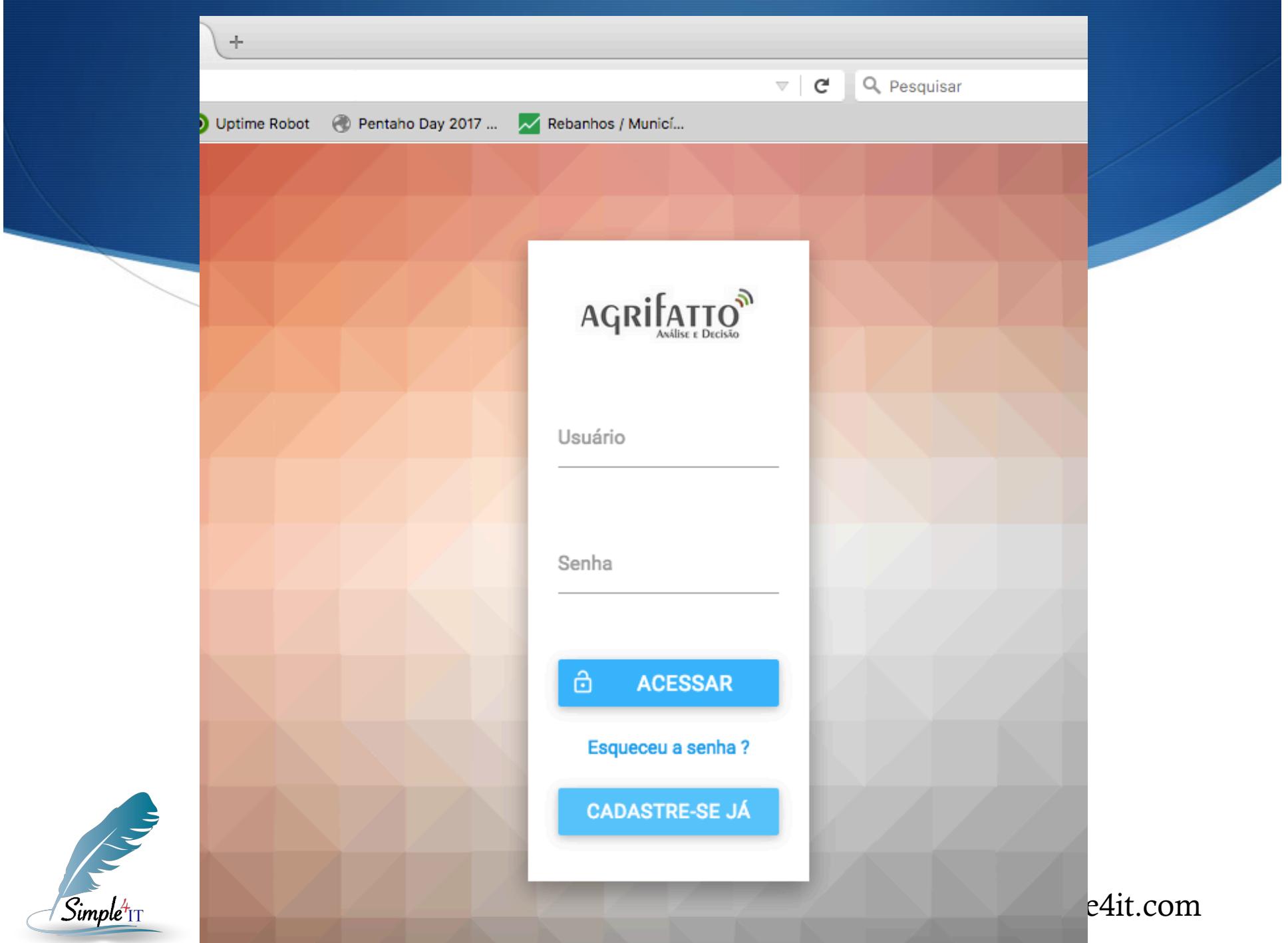
# E o MOIP ?

Cadastro no Portal

Criar usuários no Pentaho

Pentaho se vira...





# E o MOIP ?

Agridata - Login    Agridata | Criar nova conta

https://painel.agridata.agr.br/customer/new

Mais visitados   Simple4it Help Desk   Uptime Robot   Pentaho Day 2017 ...   Rebanhos / Municí...

Pesquisar

**Dados pessoais**

Nome Completo \*

E-mail \*

CPF \*

Data de Nascimento \*

Sexo \*

Telefone/WhatsApp \*

Senha

Repita a Senha

**Endereço**

Rua/Avenida \*

Número \*

Complemento

Bairro \*

Cidade \*

Estado \*

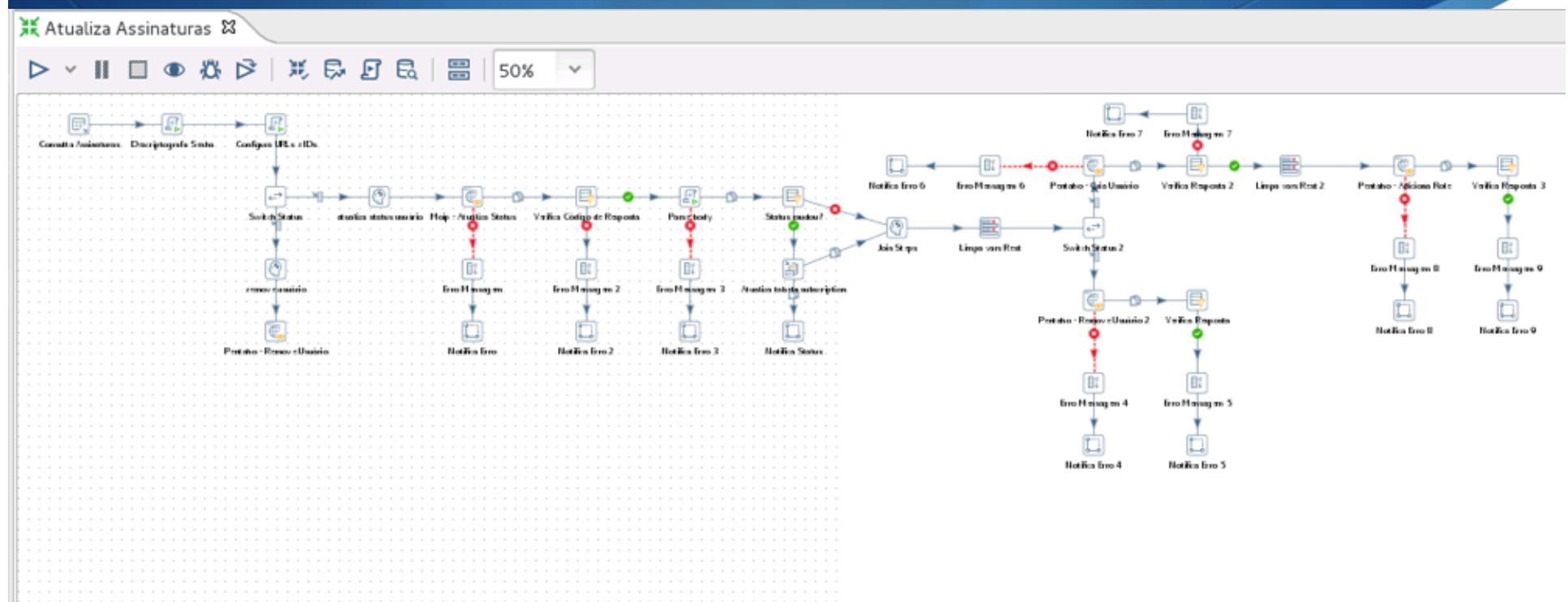
Cep \*

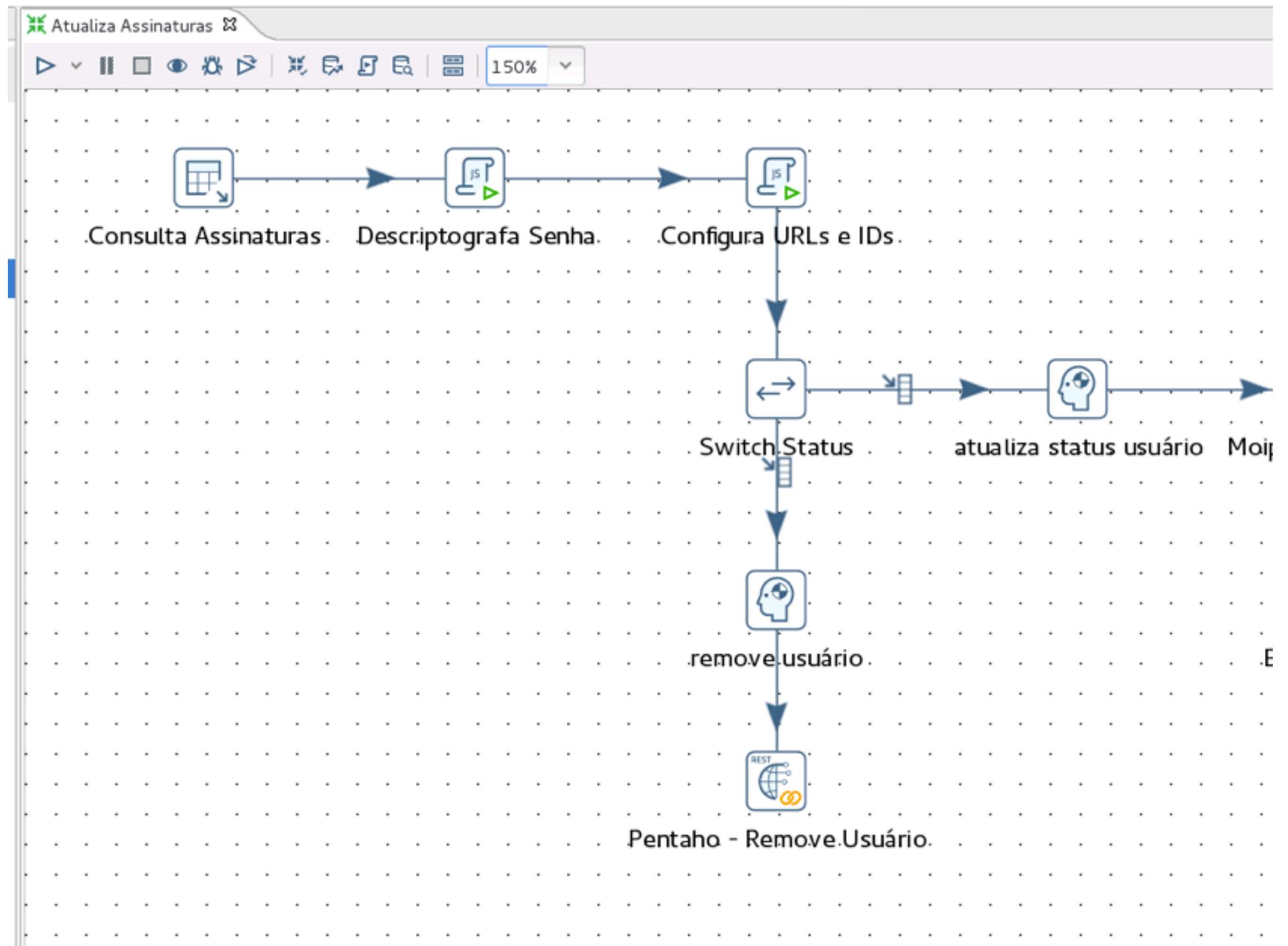
# E o MOIP ?

```
<?php  
  
namespace AppBundle\Services;  
  
use GuzzleHttp\Client;  
use GuzzleHttp\Exception;  
  
class Pentaho {  
  
    private $customer_role;  
    private $client;  
  
    public function __construct($api_url, $user, $password, $customer_role)  
    {  
        $this->customer_role = $customer_role;  
        $this->client = new Client([  
            'base_url' => $api_url,  
            'defaults' => [  
                'headers' => ['content-type' => 'application/xml'],  
                'auth' => [$user, $password],  
                'allow_redirects' => false,  
                'timeout' => 6,  
                'connect_timeout' => 6  
            ]  
        ]);  
    }  
  
    public function createNewUser($user, $pass) {  
        try {  
            $resp = $this->client->put('userroledao/createUser',[  
                'body' => "<user><userName>$user</userName><password>$pass</password></user>"  
            ]);  
            if($resp->getStatusCode() !== 200) {  
                throw new Exception("Error creating user: " . $resp->getBody());  
            }  
        } catch (Exception $e) {  
            throw new Exception("Error creating user: " . $e->getMessage());  
        }  
    }  
}
```



# E o MOIP ?





# Dicas de Projeto

- Asana para estruturar cronogramas e agendas



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Search – Asana

<https://app.asana.com/0/search/9867709273172/9867709273172>

## asana

APOLLO ENTERPRISES

- My Tasks
- Inbox
- Q1 Goals
- Focus Projects
- Laura/Nicole Weekly 1:1 Meeting
- Show Recents and more...

### MARKETING

- Team Calendar
- PROJECTS
- Q1 Goals
- Fundraising Campaign
- Milestones
- Social Media Roadmap
- Content Strategy
- Marketing Ideas
- Internal Library
- Meeting: Marketing Weekly Agenda
- Customer Marketing
- Laura/Nicole Weekly 1:1 Meeting
- More Projects...

Laura Gillis

Help | Blog | More

Search

### Calendar for Projects in Marketing Team

Jan 26 – Feb 22, 2014 | Today | Refresh

MON	TUE	WED	THU	FRI
26	27	28	29	30
Ad buys for Month 2	Complete PR plan	Apollo Mark	Tips & Tricks for Efficiency	Clients
Develop branding/voice guidelines	Review draft		Finalize Ad Expenditure	Social Proof
	Support ticket guide		Execute marketing campaign	
	Apollo Logo		API Partners	
2	Feb 3	4	5	6
How - Champion - Guide - Written - "Areas of..."	How - All Audiences - Event - Video - Customer Success	Evaluate ad buy ROIs	How - Champion - Guide - Written - "Facilities"	PR outreach
✓ Edit volunteer stories	How - Champion - Guide - Written - "Projects & Launches"	How - Champion - Guide - Written - "Brainstorming"	How - Champion - Guide - Written - "Templates"	What - Champion - Blog - Written - "Announcing the..."
			✓ Finalize list of sponsors	
			✓ Pricing Strategy	
9	10	11	12	13
Refresh office space	Brand positioning	✓ Review wireframes	Display retargeting	Refine homepage copy
	How - Champion - Guide - Written - "Goals & Milestones"	✓ Launch our new feature	Blog - Written - "A Toolbox for Your Team"	✓ Internal review of site
	✓ Write website copy	✓ How - Champion - Blog - Written - "Introducing..."		✓ How - New User/ Champion - Blog - Written...
16	17	18	19	20
			Acquisition presentation	✓ Review Transcending "Work about work"
				Locally-sourced trends
				✓ Launch fundraising website
21	22			

Share Asana



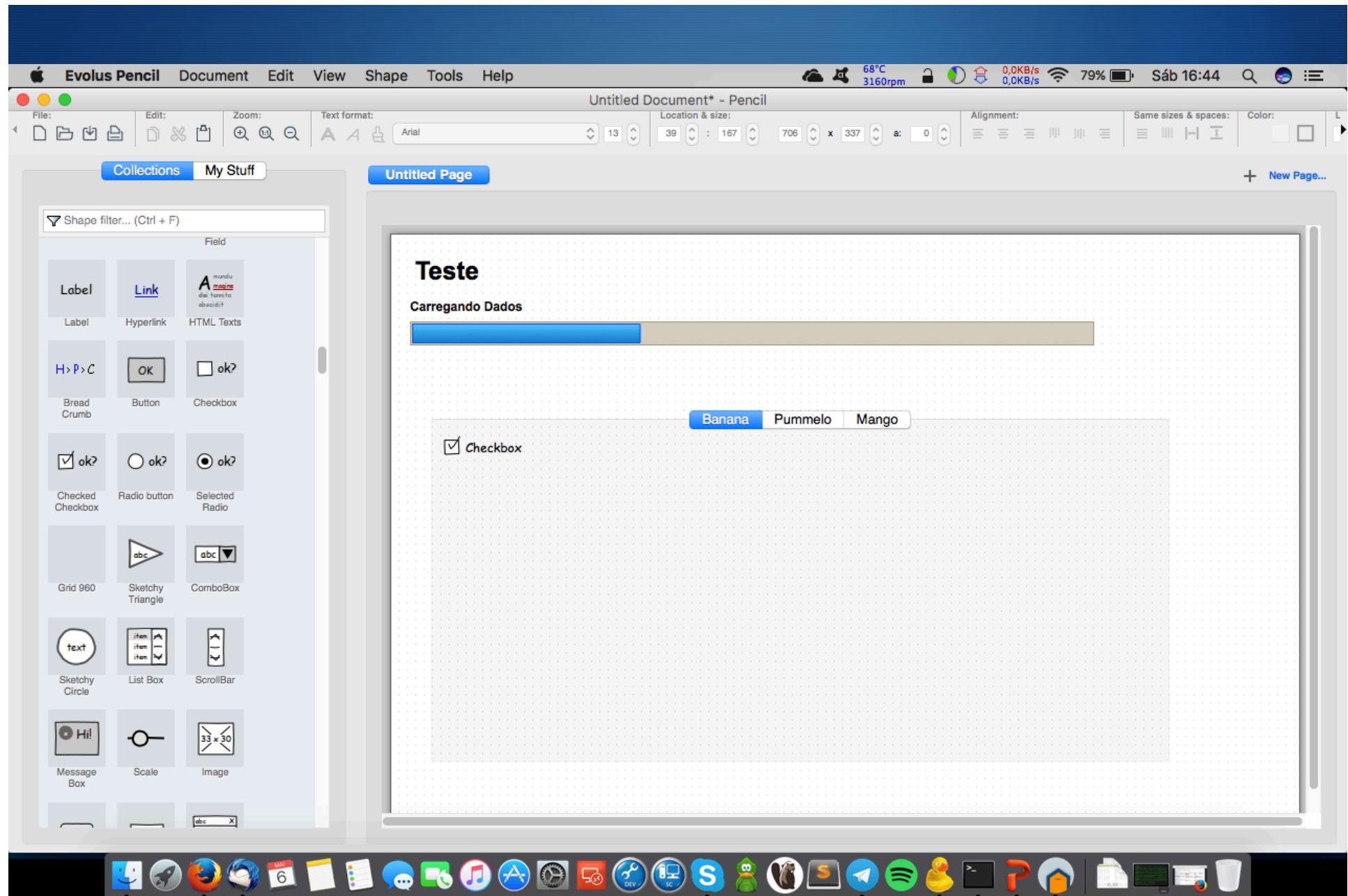
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# Mockup Simples

- Pencil



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# Mockup Simples

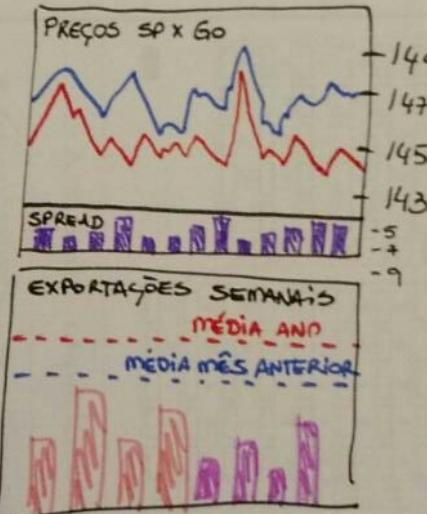
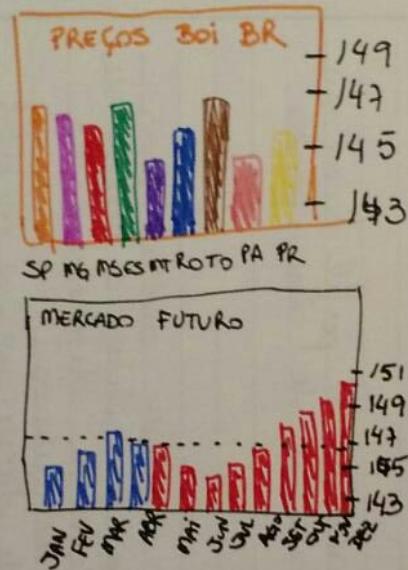
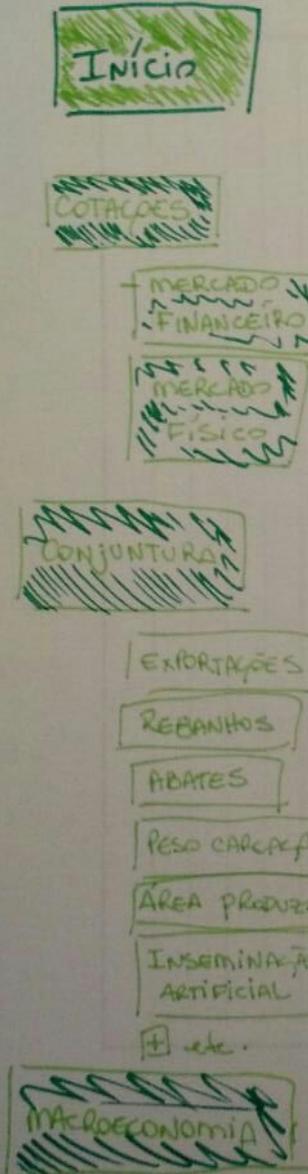
- Ou algo mais simples ainda...



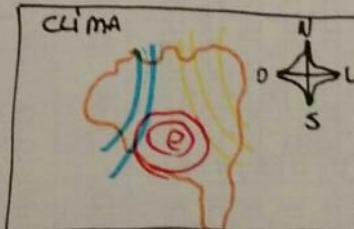
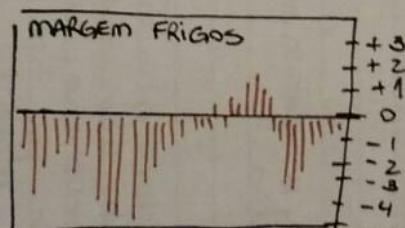
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(1)

## Início (Resumo)



DÓLAR	↑ x%
INFLAÇÃO	↑ x%
PIB	↓ y%
RENDA	↓ z%
DESEMPREGO	↑ x%
IBOV	↓ %
SELIC	↑ x%



	2010	2011	2012	2013	2014	2015	2016
REBANHO	~	~	~	~	~	~	X
PRODUÇÃO	~	~	~	~	↑	↑	Y
EXPORTAÇÕES	~	~	~	↑	↑	↑	Z
CONSUMO INTERNO	~	~	~	~	~	~	A

INÍCIO

COTAGENS

MERCADO FINANCEIRO

MERCADO FÍSICO

CONJUNTURA

EXPORTAÇÕES

REBANHOS

ABATES

PESO CARCASSA

ÁREA PROJETADA

INSEMINAÇÃO ARTIFICIAL

MACROECONOMIA

## Cotações — MERCADO FÍSICO

(2)

BOI GORDO

SP	156
MG	150
MS	148
MT	140
-	-
-	-

VACA GORDA

SP	-
MG	-
MS	-
MT	-
-	-
-	-

ATACADO

TRASEIR.	8,00
DIANTEIRO	-
-	-
-	-
-	-

PODEMOS ADICIONAR  
MAPAS QUE CONTE-  
NHAM COTAÇÕES

REPOSIÇÃO

DESMAMA	700,00
BEZERRA	800,00
GARROTE	700,00
BOI MAGRO	1100,00

DESMAMA	500,00
BEZERRA	600,00
NONILHA	750,00
VACA BOIADEIRA	910,00

GRÃOS

SOJA	milho
SP	30,00
SP	2,00
MT	30,00
MT	2,00
GO	2,00
GO	2,00
MS	2,00
MS	2,00

CARNES ALTERNATIVAS

FRANGO

-	0,00
-	0,00
-	0,00
-	0,00
-	0,00

SUÍNO

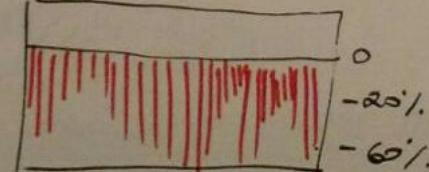
-	0,00
-	0,00
-	0,00
-	0,00
-	0,00

ACÉM

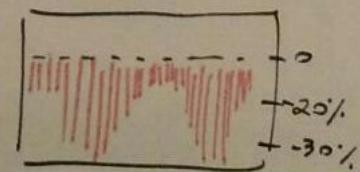
ALCATRA	0,00
CONTRAFILÉ	0,00
COXÃO DUR	0,00
COXÃO MOLE	0,00

SPREADS

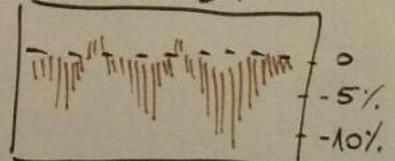
FRANGO x BOI



SUÍNO x BOI



ARROBA x BOI



# Dicas de Projeto

## PENSE GRANDE

Águias  
não caçam  
moscas

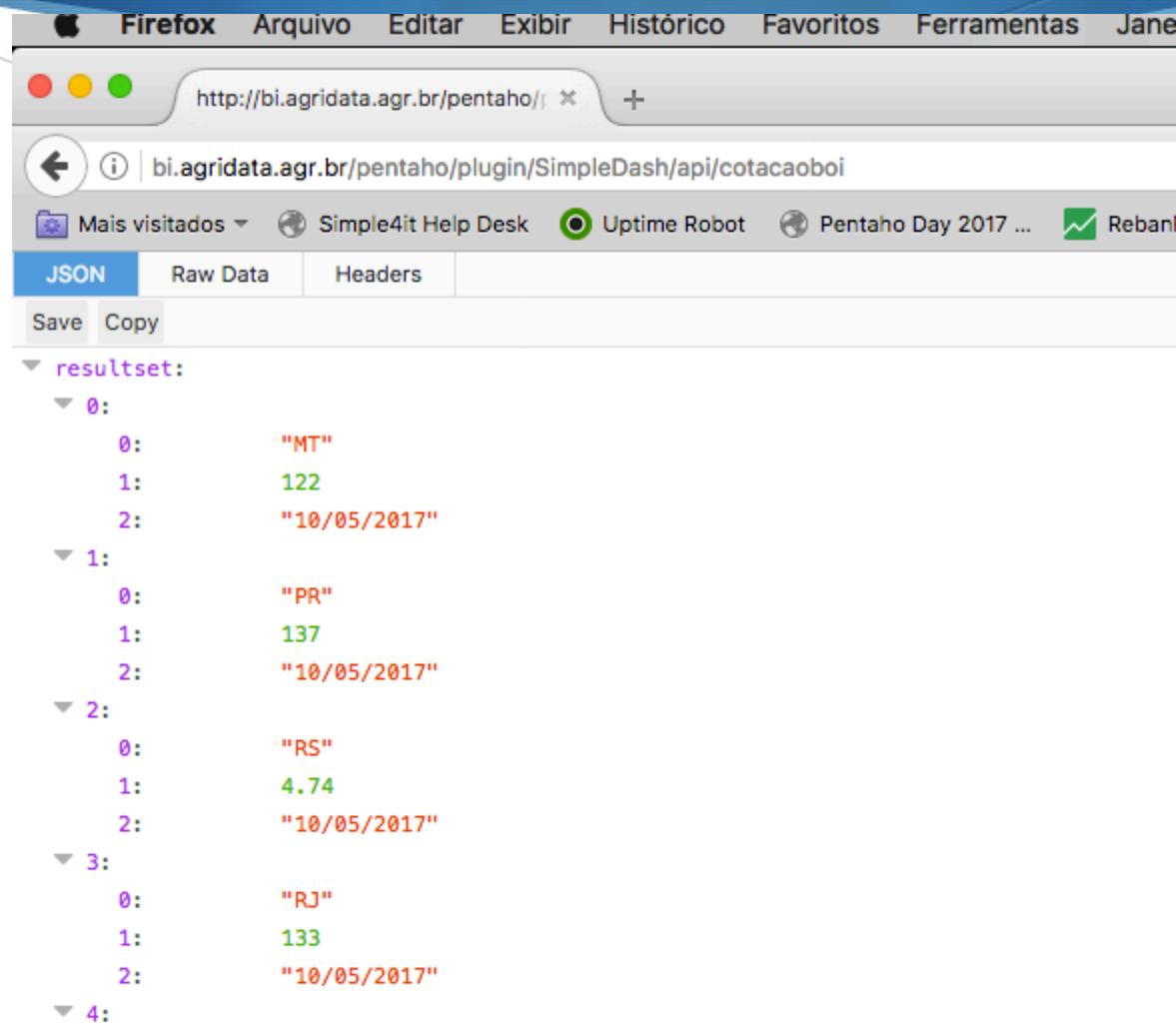


*“O Perigo não é  
você pensar grande  
e não conseguir o que deseja.  
O Perigo é pensar pequeno  
e conseguir”.*

*Você pode transformar a sua equipe em um  
“time de águias” e começar a obter resultados  
imediatamente!*



# Endpoints



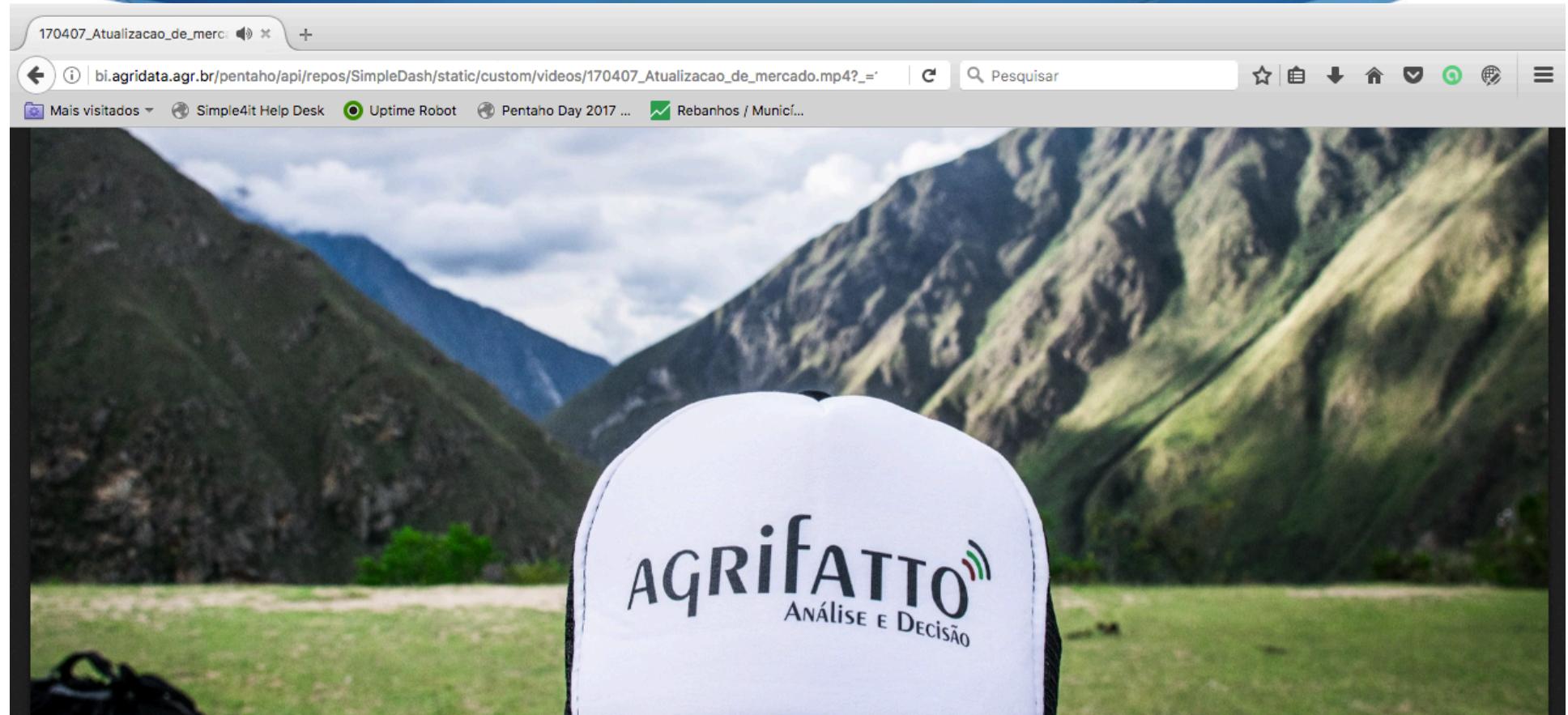
The screenshot shows a Firefox browser window with the URL <http://bi.agridata.agr.br/pentaho/>. The browser title bar includes the standard Mac OS X icons. The address bar shows the URL. Below the address bar is a toolbar with several icons: 'Mais visitados', 'Simple4it Help Desk', 'Uptime Robot', 'Pentaho Day 2017 ...', and 'Rebanl'. The main content area displays a JSON response. The JSON structure is as follows:

```
resultset:
  0:
    0: "MT"
    1: 122
    2: "10/05/2017"
  1:
    0: "PR"
    1: 137
    2: "10/05/2017"
  2:
    0: "RS"
    1: 4.74
    2: "10/05/2017"
  3:
    0: "RJ"
    1: 133
    2: "10/05/2017"
  4:
```



w.simple4it.com

# Api de Arquivos



[www.simple4it.com](http://www.simple4it.com)

# Agradecimentos...

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