

Brewing with Of-Biz

Case Study Implementation

@ Birrificio San Paolo

Turin, Italy





Who am I

- OFBiz Contributor since 2008
- Founder & owner of SOMONAR B.V. & ORRTIZ.COM
 - Consultancy, design & implementation OFBiz solutions
 - Cloud based OFBiz hosting
- But also:
 - Husband & Father
 - Enjoyer of the good things in life & Questioner of practices
 & habits
 - often involves **beering** with friends & relatives
 - ASF Contributor
 - Apache Directory Committer





Beer

What

Water, Starch (Malts), Yeast (Brewers), Flavors (fruits, herbs, spices)

How

Converting the starch in grains to sugar, adding flavour, converting the sugar to alcohol & CO2

Result

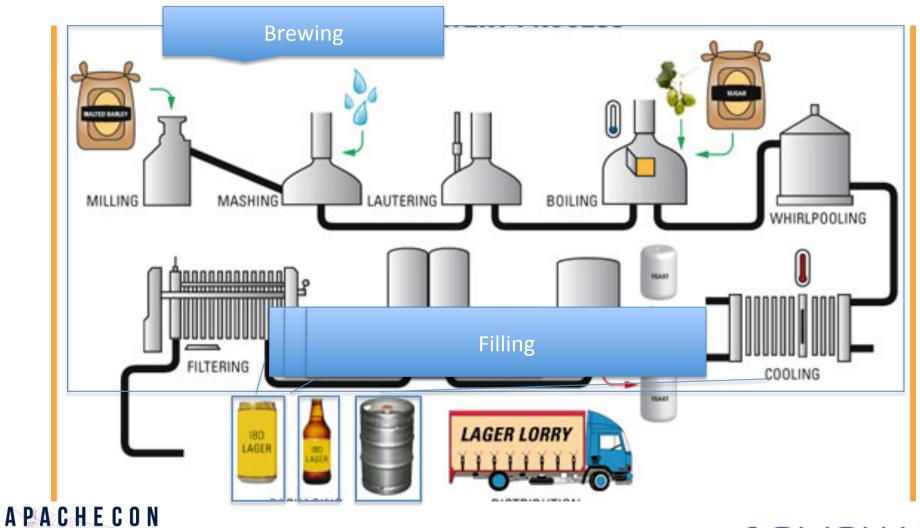
Beverage





ORRTIZ Brewery Processes

EUROPE





Birrificio San Paolo

- Small, Craft
- 10 styles, plus specials
 - Bottles: 2 types (33cL & 75cL)
 - Kegs: 2 variants (20L & 50L)
- Main market: Italy, but exports to EU, Australia, US
- 2012: 1.000 hl/year, 2014: 5.000 hl
- Front: Pub (packed every night!)
- http://www.birrificiosanpaolo.it/





Issues to address

- People & Process
- Recipes
- Tracking lots/batches
- Kegs
- Excise
- Usability/Experience





Keyplayers



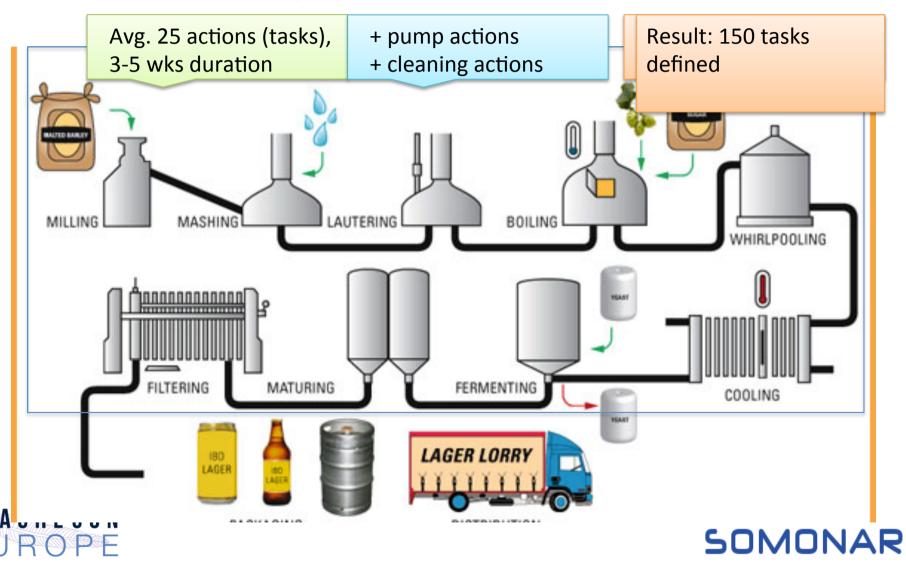




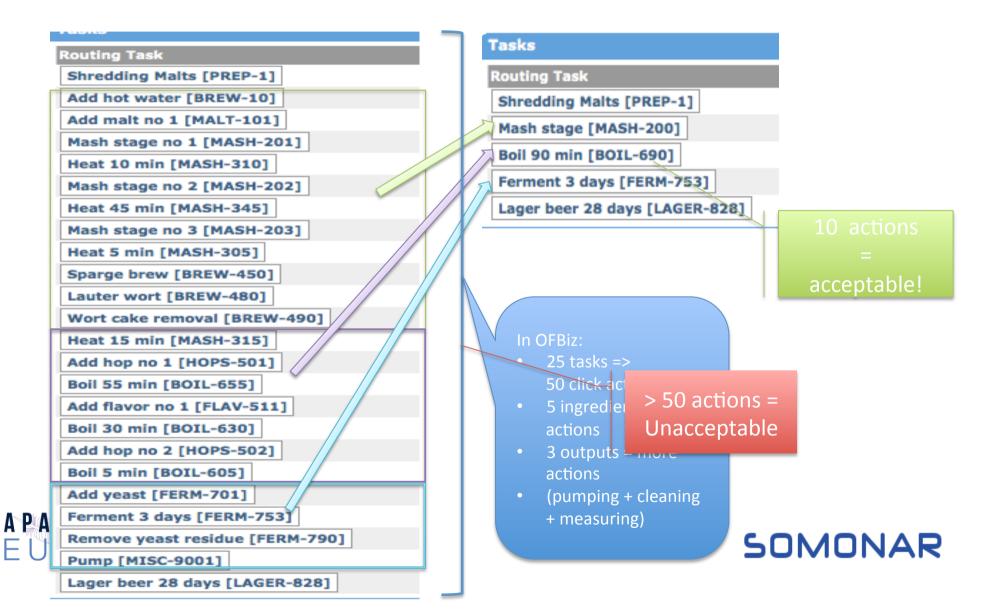
Brewer

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sMB != LE (Excel at best, paper at least)
Brewer = alchemist, artist, creator
                                                         Cultural
Brewer X administration
Brewer KNOWS best, Brewer = RIGHT (always)
Brewer != consultant, != developer
Manufacturing != Creating
Production Equipment = Storage Location
                                                        Use & Cost
Water
   Consumable (cleaning, etc)
   Ingrediënt
                                                        Functional
SFA != CRM
OrderMgr != CRM | SCM
                                                           SOMONAR
```

Brewing Process



Action Reduction



Recipe Management

- Product = Lifecycle
- Marketing Product
 - Brand & style = everlasting
 - But flavor appeal may change
- Technical product
 - Limited lifespan
 - Ingredients
 - (compatibles, additionals)
 - Location





Recipe

Recipe / Rev. 10000 / 1 HissVat 0001 Beer 5% From 2013-01-01 Thru End Product HissVat 0001 Beer 5% (id: HissVat-0001B5) Demo Beer Brewing (id: BREW_DEMO) Std Quantity 1 Hectoliter (hL) Facility Default Facility (Id: DEFAULT)

Status In Use

Tasks - ingredients and by-products

Product In H-SAAZ-F - Saaz (200 Grams)

Task Mash stage (id: MASH-200)

Setup 12,600,000 Execution (per unit) 0

Product In M-PALE-ALE - Pale Ale (20 Kilograms)

Task 28 days Lagering (id: LAGER-828)

Product In WATER - Water (100 Liters + 20% scrapFactor = 120 Liters)

Task Boil brew for 90 minutes (id: BOIL-690) Product Out WORT - Wort

Setup 5,400,000 Execution (per unit) 0

Task 3 days Fermenting (id: FERM-753) Product Out YEAST-RES - Yeast Resid

Setup 259,200,000 Execution (per unit) 0

Product In Y-BELLS-500 - Bells Salson (1 pack)

Setup 2,419,200,000 Execution (per unit) 0

Tasks - Instructions

Task Mash stage (id: MASH-200)





Batch/Lot Management

Accountability! & Brand perception!

- Regulations by law, differences per country
- Inbound: ingredients, components
 - bags, boxes, pallets, containers
- Outbound: products produced
 - In glass, keg, cans, etc.
 - Packed other packages: boxes, pallets

=

extensive Track & Trace required





ORRTIZ Lot Details

Lot

Product Pale Ale mout (ID: M-PALE-ALE)

Manufacturer Holland Malt (ID: HOLLANDMALT)

Date Manufactured 9/1/14 12:00:00 AM

Lot Ref. 12aq1223

Expiration Date 9/1/15 12:00:00 AM

Invento	ry Items								
ID	Date Time Received	Туре	Status ID Product	Party Id F	Facility Location Seq	d Type Container Bin Number	Serial Number S	oft Identifier UoM	ATP total / QOH total
10000	2014-11-04 00:00:00.000	Non-Serialized	Pale Ale mout	[M-PALE-ALE] D	Default Facility				2,340 / 2,340

Inventory D	etails For [1000	0]													
Inventory Item Detail Seq Id	Effective Date	Quantity On Hand Diff	Available To	Accounting Unit Quantity Diff Cost	Order Item	Ship Group Seq Id	Shipment Shipment Id Item Seq Id	Return Id	Work Effort Id	Fixed Asset	Maint Hist Seq Id	Issuance	Receipt ID	Physical Inventory Id	Reason Description UoM
10011	2014-11-04 10:20:05.431	-160	-160	0					10001						
10001	2014-11-04 09:50:24.207	0	0	2,500											
10000	2014-11-04 09:50:08.225	2,500	2,500	0									10000		Pale Ale mout

Shipme	nt Receipts for [1000	00]											
Receipt ID	Product Id Shipment	Shipment Item Seq Id	Shipment Package Seq Id	Order Id	Order Item Seq Id	Return Id	Return Item Seq Id	Rejection Id	Received By User Login Id	Date Time Received	Item Description	Quantity Accepted	Quantity Rejected
10000	M-PALE-ALE								admin	2014-11-04 00:00:00.000		2,500	0





Keg Track & Trace

Customers & Kegs (filled with beer)

10 -> Customer != 10 -> Warehouse

Returned Kegs = Empty Kegs! Dirty Kegs

Kegs = Assets = Money
Inspection, Cleaning, Scrapping

Track & Trace needed complex Inventory Management & Reporting





Excise Calc & Reporting

- Aspects to consider
 - Regulations (how)
 - Products & Rates (what)
 - Delivery (who)
 - Reporting intervals (when)
 - Reporting structure (where)
- Tax Authority, Products & Categories, Rates
- Custom Reporting





Of-Biz applied

CRM (CUSTOMER Relation Mgt)

SRM (SUPPLIER Relation Mgt)

MFG (Production Mgt + Recipe Mgt)

WHM (Warehousing & Batch/Lot Mgt)

EAM (Equipment, Asset Mgt & Keg T&T)

TRM (Excise Calc & Reporting)

TERR (Travel Expense Registration & Review)

TIME (Time Registration & Review)

SFA,ORDER,ACCOUNTING,PARTY, Cust

SFA,ORDER, ACCOUNTING, PARTY, PRODUCT, Cust

MANUFACTURING, ASSETMAINT, Cust

FACILITY, Cust

ASSETMAINT, Cust

SPECIAL: ACCOUNTING, PARTY, PRODUCT, FACILITY

SPECIAL: ACCOUNTING, PARTY, PRODUCT

SPECIAL: PROJECTMGR,PARTY

+

Customizations to ACCOUNTING, COMMONEXT, COMMON



SOMONAR

Conclusions

Perfect for

Assembly manufacturing
Process Oriented manufacturing
And the Rest, of course

OOTB easy to implement relatively

But...

1st: Tailor to Organisation & Process

2nd: Customize Technical Aspects

Don't Release Code, Release Solutions





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