

# 开源商业解决方案odoo的实践之路





Startup

没钱

没人

爱折腾



Collaboration



IT Operation



E-Commerce



Project



GitLab

CMS



ERP

Choose the right things.



层次

版本策略

授权协议

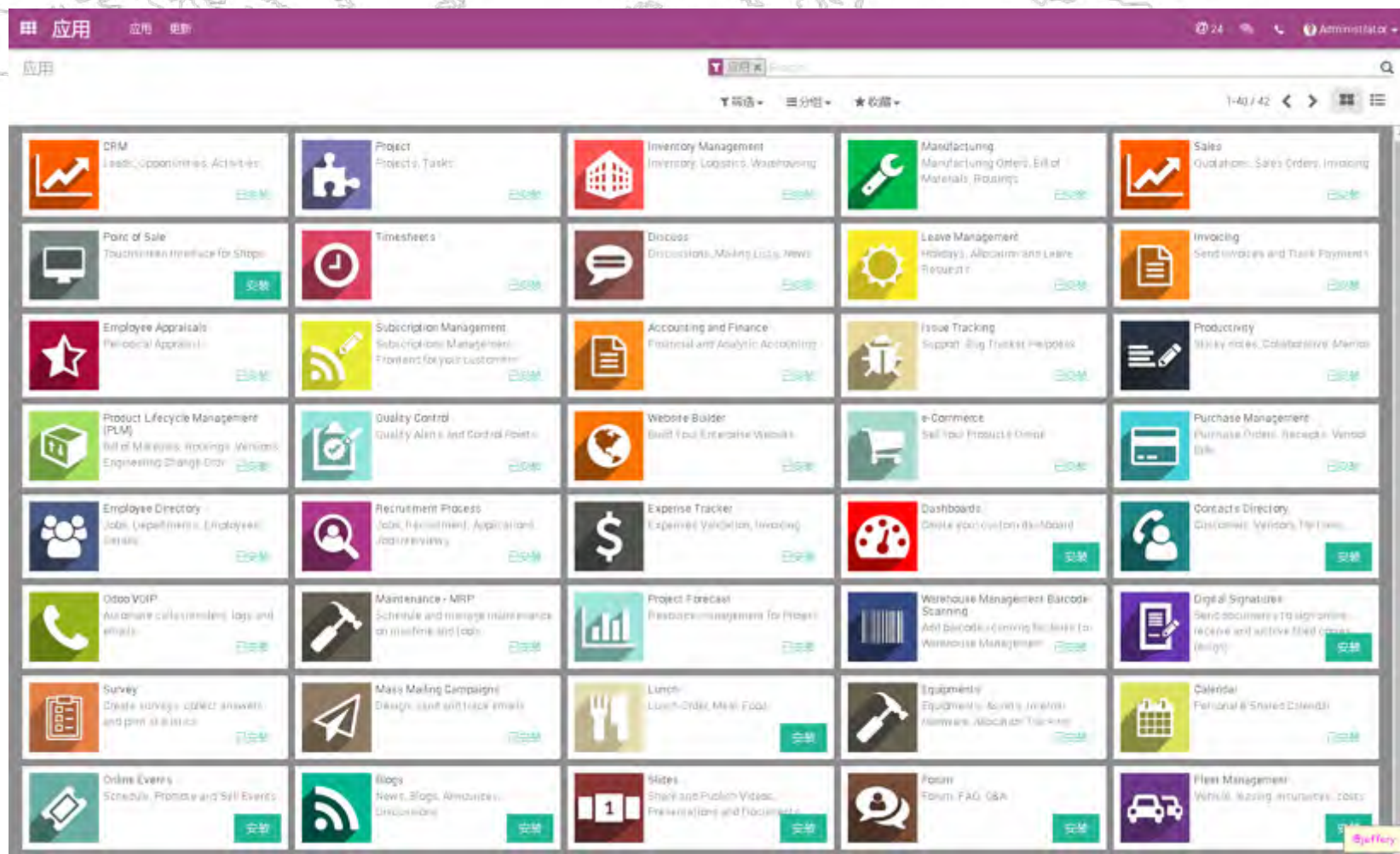
社区

掌控能力



# What is Odoo **On Demand Open Object**

CRM + ERP + MRP + POS + HRMS + 网站 + 营销 + 生产力  
 工具 + Any idea



# Brief history: Odoo

2005: TinyERP 1.0-4.0.

2009: OpenERP 5.0.

▶ 2011: OpenERP 6.0

2012: OpenERP 6.1

2012: OpenERP 7.0.

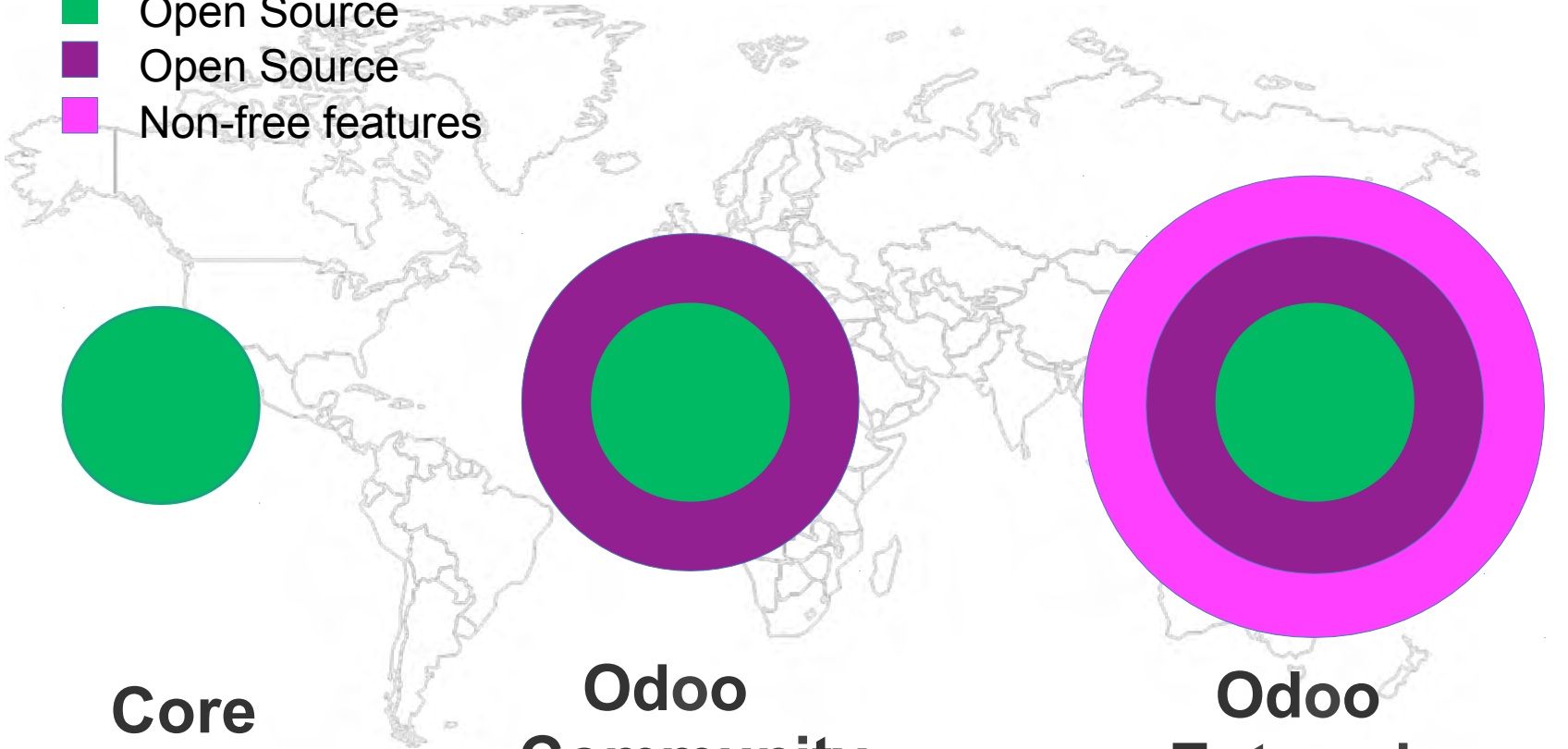
2014: Odoo 8.0

2015: Odoo 9.0

2016: Odoo 10.0- \_\_\_\_\_

# Odoo Edition

- Open Source
- Open Source
- Non-free features



## Core

Framework  
ORM/Services

## Odoo Community

Core  
+ Free Applications

## Odoo Enterprise

Community  
+ Non-Free Applications

# How to use Odoo

业务解决方案,大量的Odoo Apps

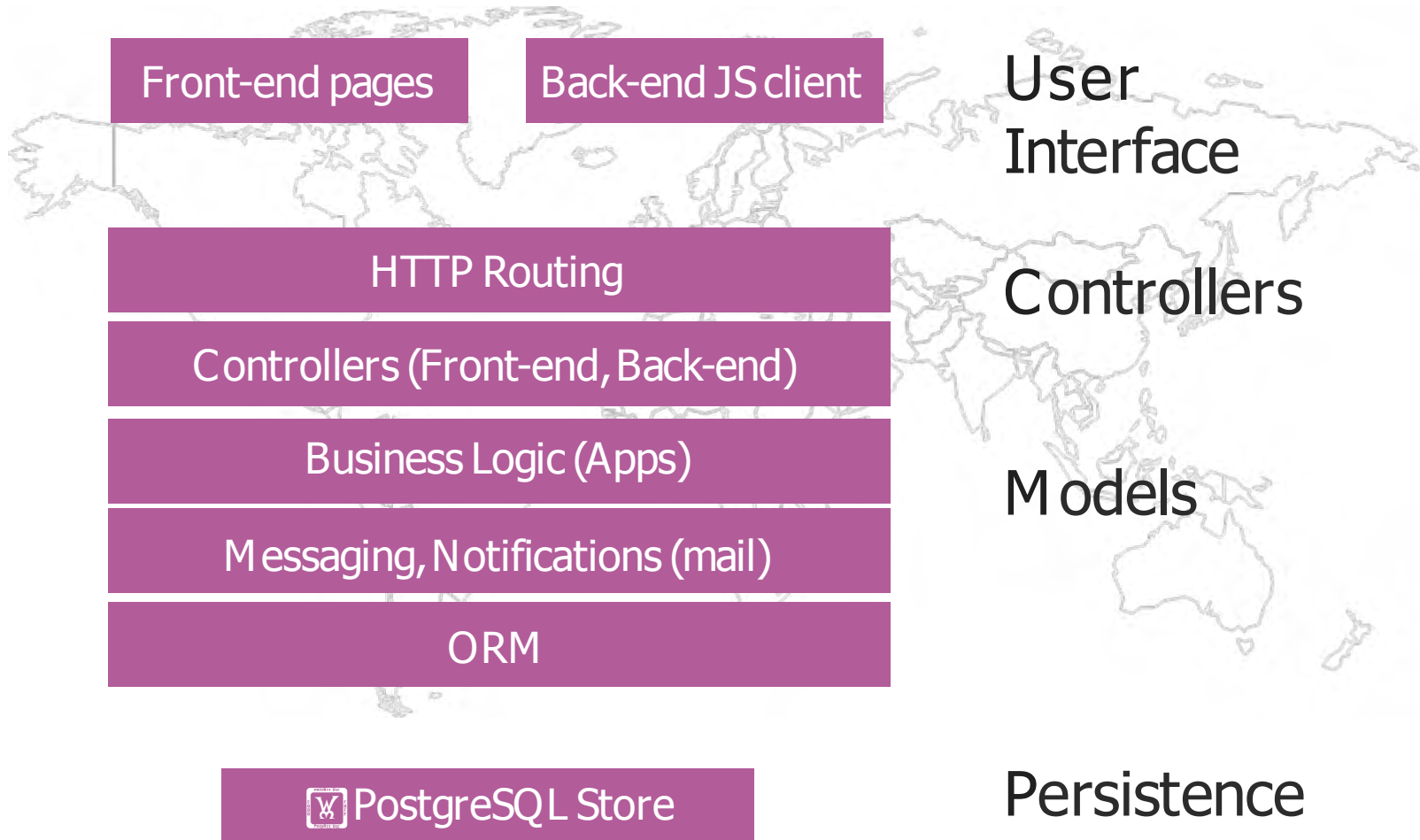
- Odoo community 200+
- Odoo enterprise 100+
- Odoo社区 10,000+

开发平台,强大的Framework

- LGPL授权
- 快速开发



# Odoo Architecture



# 学习

- 了解，学习
- 部署并尝试

1. 绿色版/VM镜像
2. 源码安装
3. 安装包
4. 在线saas

Ubuntu better than windows  
Python 2.7, not support Py3  
PostgreSQL, no other

Ref:

官网 <http://www.odoo.com>

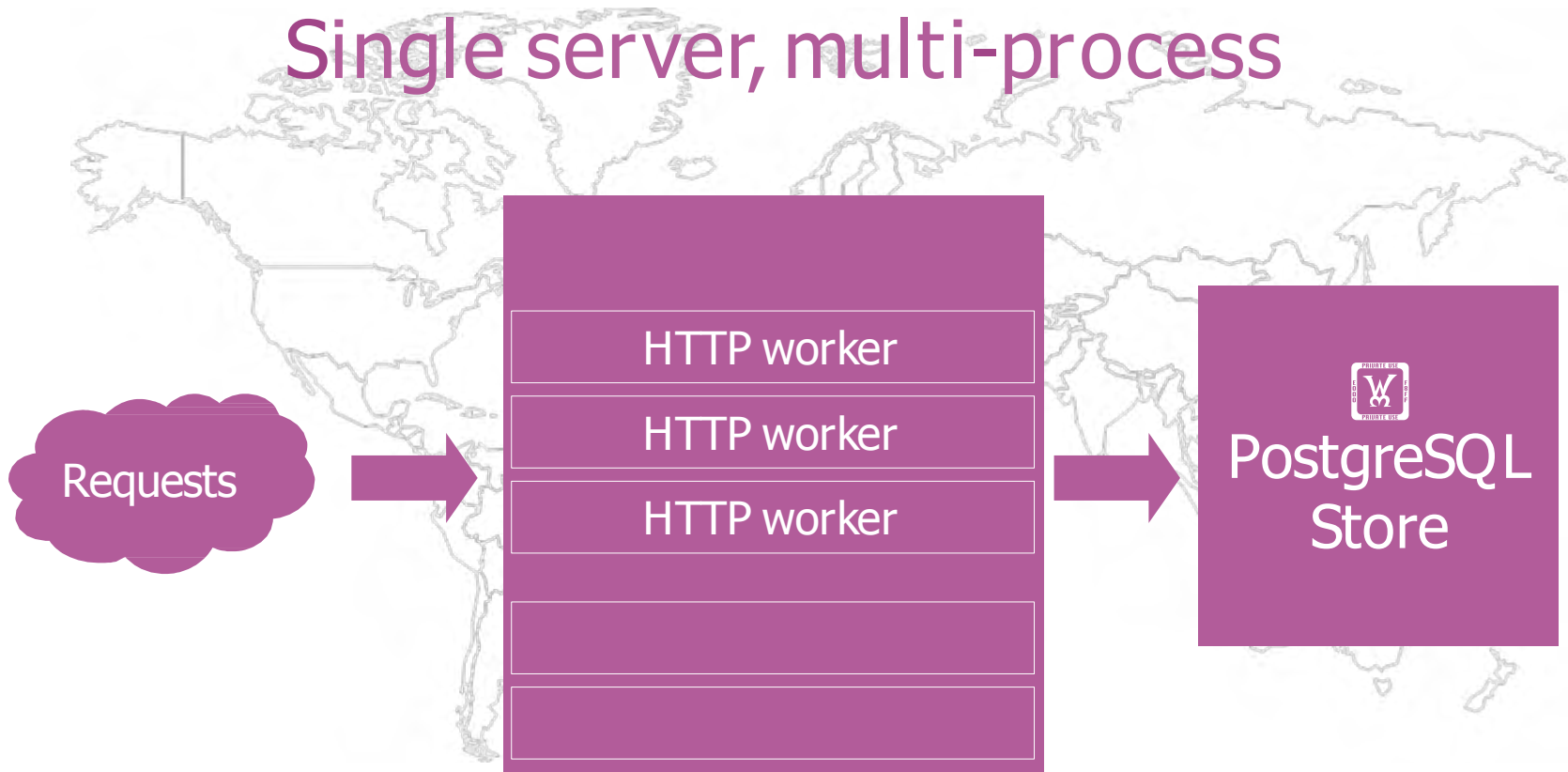
代码库 <http://github.com/odoo/odoo>

用户文档 <https://www.odoo.com/documentation/user>

技术文档 <https://www.odoo.com/documentation>

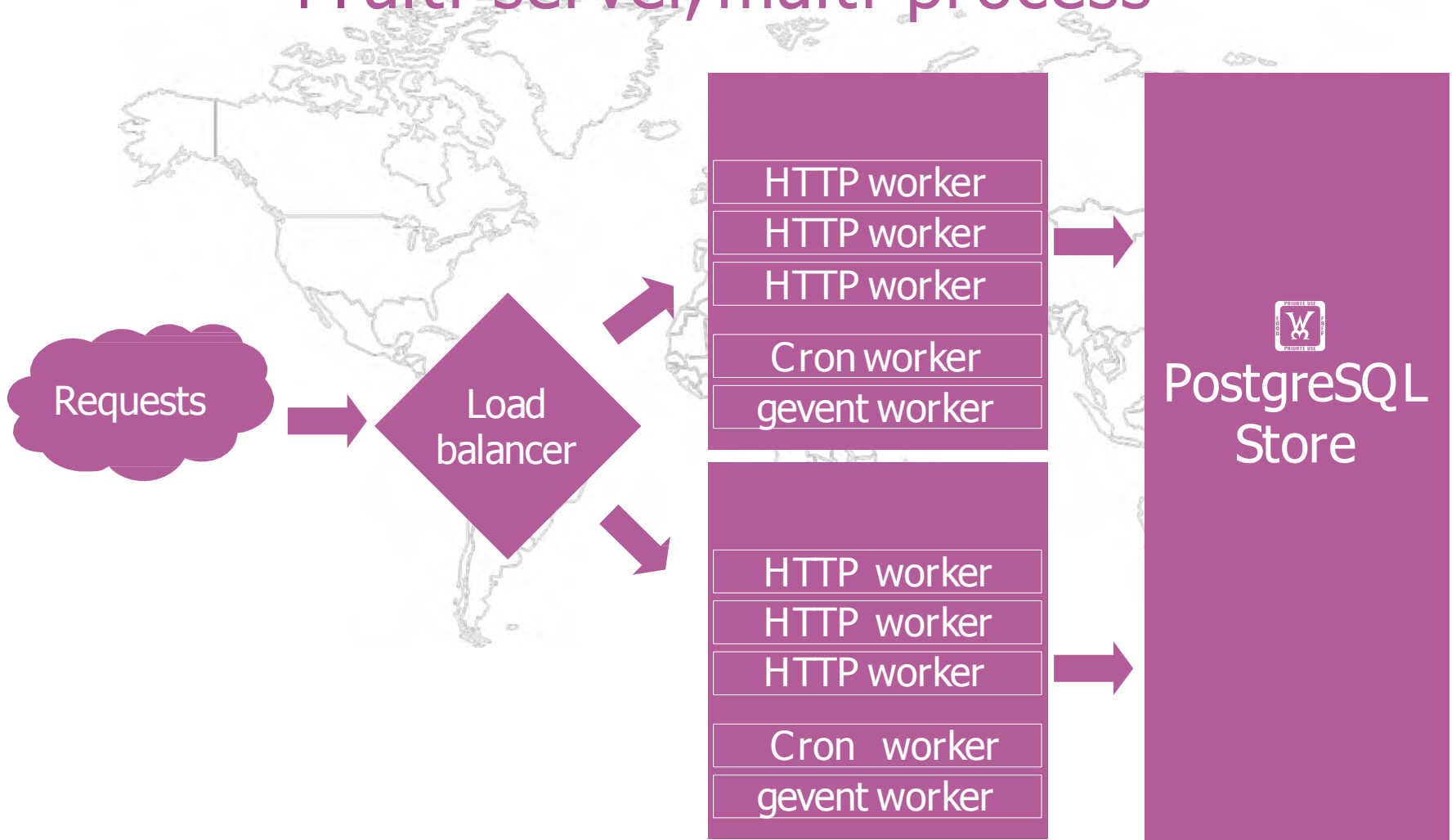
# 部署架构

## Single server, multi-process



# 部署架构

## Multi-server, multi-process



# 实施过程

- 需求收集
- 需求分析，配置开发
- 撰写文档，培训用户
- 上线
- 支持

Velocity 速度

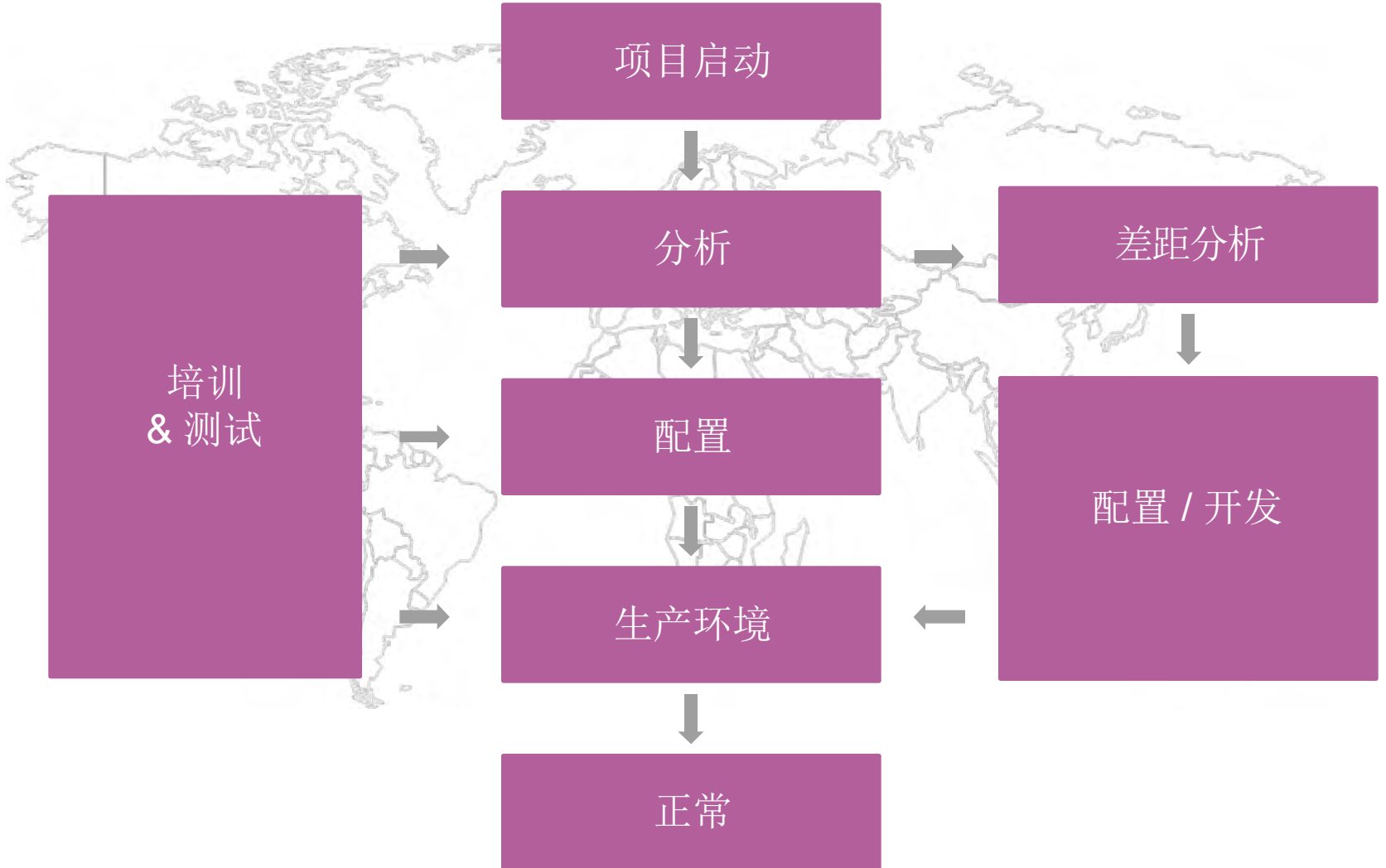
Volume 体量

Value 价值

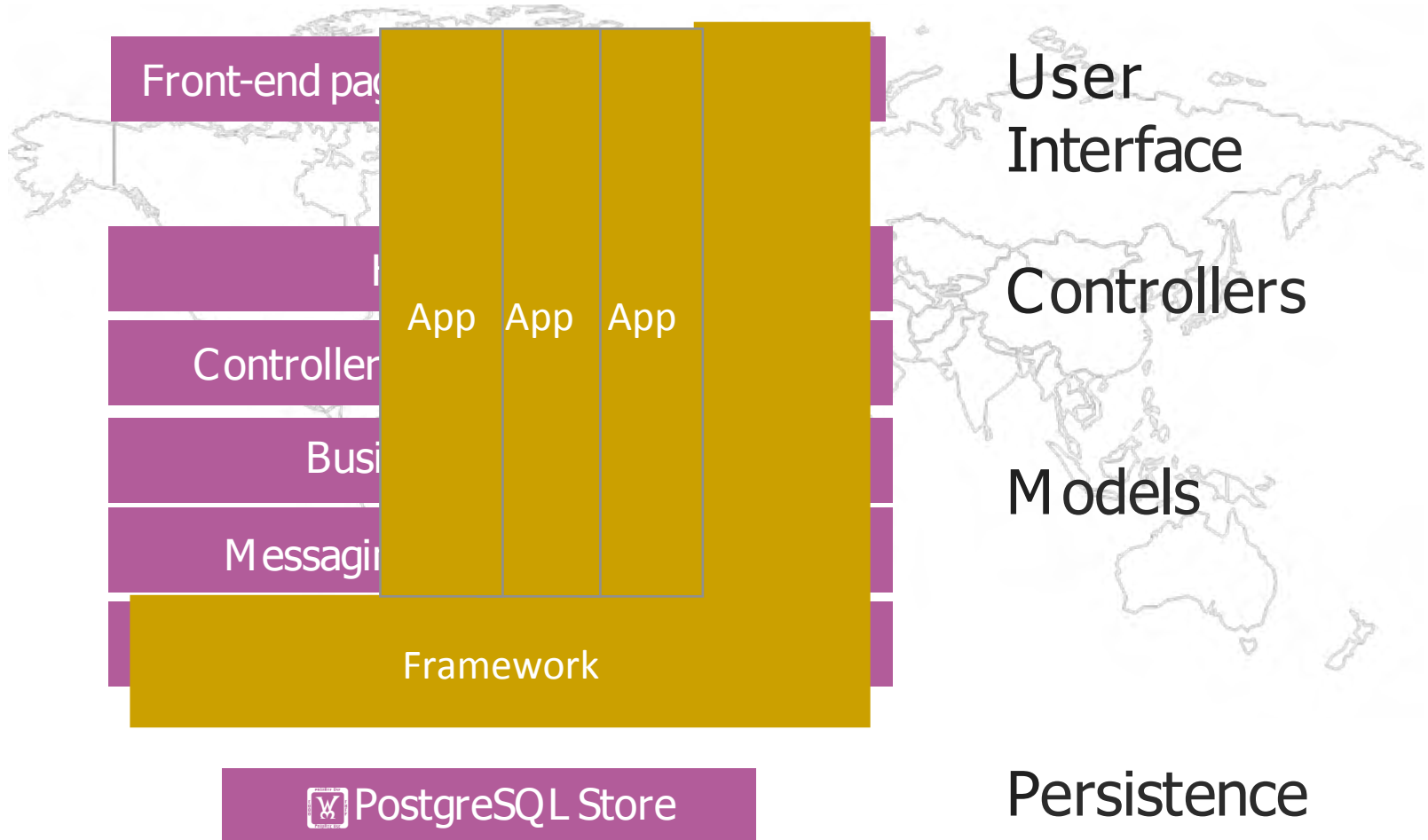




# 实施过程



# Odoo Architecture



# Odoo development

- . Three-tier client/server/database
- . Web client in Javascript
- . Server and backend modules in Python
  - . MVC framework
- Odoo Addons =
- Python Module + odoo application assets.

```
jeffery@jeffery-w541 /cygdrive/e/_odoo/odoo/addons/website
$ ls
__init__.py      data      models     static     wizard
__openerp__.py  doc       README.md  tests
controllers     i18n     security   views
```

Odoo App

Addons

Odoo module

# Odoo development

odoo application assets. =

Manifest file + py file + data file + web assets.

\_\_openerp\_\_.py

```
 -*- encoding: utf-8 -*-
# Part of Odoo. See LICENSE file for full copyright and licensing details.

{
    'name': 'website builder',
    'category': 'website',
    'sequence': 50,
    'summary': 'Build Your Enterprise Website',
    'website': 'https://www.odoo.com/page/website-builder',
    'version': '1.0',
    'description': """
Odoo Website CMS
=====

""",
    'depends': ['web', 'web_editor', 'web_planner'],
    'installable': True,
    'data': [
        'data/website_data.xml',
        'data/web_planner_data.xml',
        'security/ir.model.access.csv',
        'security/website_security.xml',

        'views/website_templates.xml',
        'views/website_navbar_templates.xml',
        'views/snippets.xml',
        'views/website_views.xml',
        'views/res_config_views.xml',
        'views/ir_actions_views.xml',

        'wizard/base_language_install_views.xml',
    ],
    'demo': [
        'data/website_demo.xml',
    ],
    'qweb': ['static/src/xml/website.backend.xml'],
    'application': True,
}
```

# Odoo development

odoo application assets. =  
Manifest file + py file + data file + web assets.

```
class Website(models.Model):  
    _name = "website" # Avoid website.website convention for conciseness (for new  
    api). Got a special authorization from xmo and rco  
    _description = "Website"  
  
    def _active_languages(self):  
        return self.env['res.lang'].search([]).ids  
  
    def _default_language(self):  
        lang_code = self.env['ir.values'].get_default('res.partner', 'lang')  
        def_lang = self.env['res.lang'].search([('code', '=', lang_code)], limit=1)  
        return def_lang.id if def_lang else self._active_languages()[0]  
  
    name = fields.Char('Website Name')  
    domain = fields.Char('Website Domain')  
    company_id = fields.Many2one('res.company', string='Company', default=lambda se  
lf: self.env.ref('base.main_company').id)  
    language_ids = fields.Many2many('res.lang', 'website_lang_rel', 'website_id', '  
lang_id', 'Languages', default=_active_languages)  
    default_lang_id = fields.Many2one('res.lang', string='Default Language', default  
t=_default_language)  
    default_lang_code = fields.Char(related='default_lang_id.code', string='Default  
language code', store=True)  
  
    social_twitter = fields.Char('Twitter Account')  
    social_facebook = fields.Char('Facebook Account')  
    social_github = fields.Char('GitHub Account')  
    social_linkedin = fields.Char('LinkedIn Account')  
    social_youtube = fields.Char('Youtube Account')  
    social_googleplus = fields.Char('Google+ Account')  
    google_analytics_key = fields.Char('Google Analytics Key')
```

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149,0-1

22%

A model and its fields are defined in a Python class: 数据结构 + 业务逻辑



# Odoo development

odoo application assets. =  
Manifest file + py file + data file + web assets.  
XML or CSV

```
<?xml version="1.0" encoding="utf-8"?>
<odoo>
  <data noupdate="1">
    <record id="default_website" model="website">
      <field name="name">website localhost</field>
      <field name="domain">localhost</field>
      <field name="company_id" ref="base.main_company"/>
      <field name="user_id" ref="base.public_user"/>
      <field name="favicon" type="base64" file="web/static/src/img/favicon.ic
o"/>
    </record>

    <record id="main_menu" model="website.menu">
      <field name="name">Top Menu</field>
      <field name="website_id" ref="default_website"/>
    </record>

    <record id="menu_homepage" model="website.menu">
      <field name="name">Home</field>
      <field name="url">/page/homepage</field>
      <field name="parent_id" ref="website.main_menu"/>
      <field name="sequence" type="int">10</field>
      <field name="website_id" ref="default_website"/>
    </record>

    <record id="menu_contactus" model="website.menu">
      <field name="name">Contact us</field>
      <field name="url">/page/contactus</field>
      <field name="parent_id" ref="website.main_menu"/>
      <field name="sequence" type="int">60</field>
      <field name="website_id" ref="default_website"/>
    </record>
  </data>
</odoo>
```

# Odoo development

odoo application assets. =  
 Manifest file + py file + data file + web assets.

Javascrpts + CSSs

```
<?xml version="1.0" encoding="utf-8"?>
<odoo>
<!-- Assets -->
<template id="assets_backend" inherit_id="web.assets_backend" name="Website Backend Assets">
  <xpath expr="//script[last()]" position="after">
    <script type="text/javascript" src="/website/static/src/js/website.backend.js"></script>
    <script type="text/javascript" src="/website/static/src/js/website.tour.rte.js"></script>
    <script type="text/javascript" src="/website/static/src/js/website.backendDashboard.js"></script>
    <link rel="stylesheet" href="/website/static/src/less/website.backendDashboard.less"/>
  </xpath>
</template>
```

File Name	Size	Type	Source	Size	Time
web	200	document	Other	1.6 KB	42 ms
web.assets_backend.0.css	200	stylesheet	<a href="#">web:37</a>	255 KB	62 ms
web.assets_backend.1.css	200	stylesheet	<a href="#">web:38</a>	188 KB	67 ms
web.assets_common.0.css	200	stylesheet	<a href="#">web:35</a>	135 KB	41 ms
web_editor.summernote.0.css	200	stylesheet	<a href="#">web:40</a>	11.6 ...	76 ms
web_editor.assets_editor.0.css	200	stylesheet	<a href="#">web:42</a>	50.2 ...	93 ms
web.assets_common.js	200	script	<a href="#">web:44</a>	789 KB	149 ...
web.assets_backend.js	200	script	<a href="#">web:46</a>	1.8 MB	199 ...
web_editor.summernote.js	200	script	<a href="#">web:55</a>	185 KB	149 ...
web_editor.assets_editor.js	200	script	<a href="#">web:57</a>	143 KB	201 ...

# 操作硬件





# 操作硬件

Pos box 运行 最小化的 odoo 实例

- /hw\_proxy/hello 提供web service

扫描、称重

- Posbox 轮询条码枪
- Pos Apps 使用ajax 轮询posbox

打印

- Pos App 通过web service 向 posbox 发送指令
- Posbox驱动 硬件



# 启示

异构

松耦合

模块化

敏捷

Python 动态语言、灵活性

Open source = Free != 免费



谢谢观看



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jeffery9



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