开源商业解决方案odoo的实践之路

陈帆

Startup

没钱

没人

爱折腾

zimbra
Alfresco
OTRS
Nagios®
openNMS®
ZABBIX
Collaboration
REDMINE
flexible project management
IT Operation
trac
Integrated SCM & Project Management
E-Commerce
feng
OFFICE
GitLab
Project
WordPress
Joomla!™
CMS
Drupal
OpenERP
OPEN SOURCE MANAGEMENT SOLUTION
odoo
ERP5
Tryton
ZOHO
Work. Online
ERPNext
Magento
WOO COMMERCE
ShopEx
SUGARCRM
ofbiz
openbravo
opening ERP's future!
Compiere
ERP

Choose the right things.

层次

版本策略

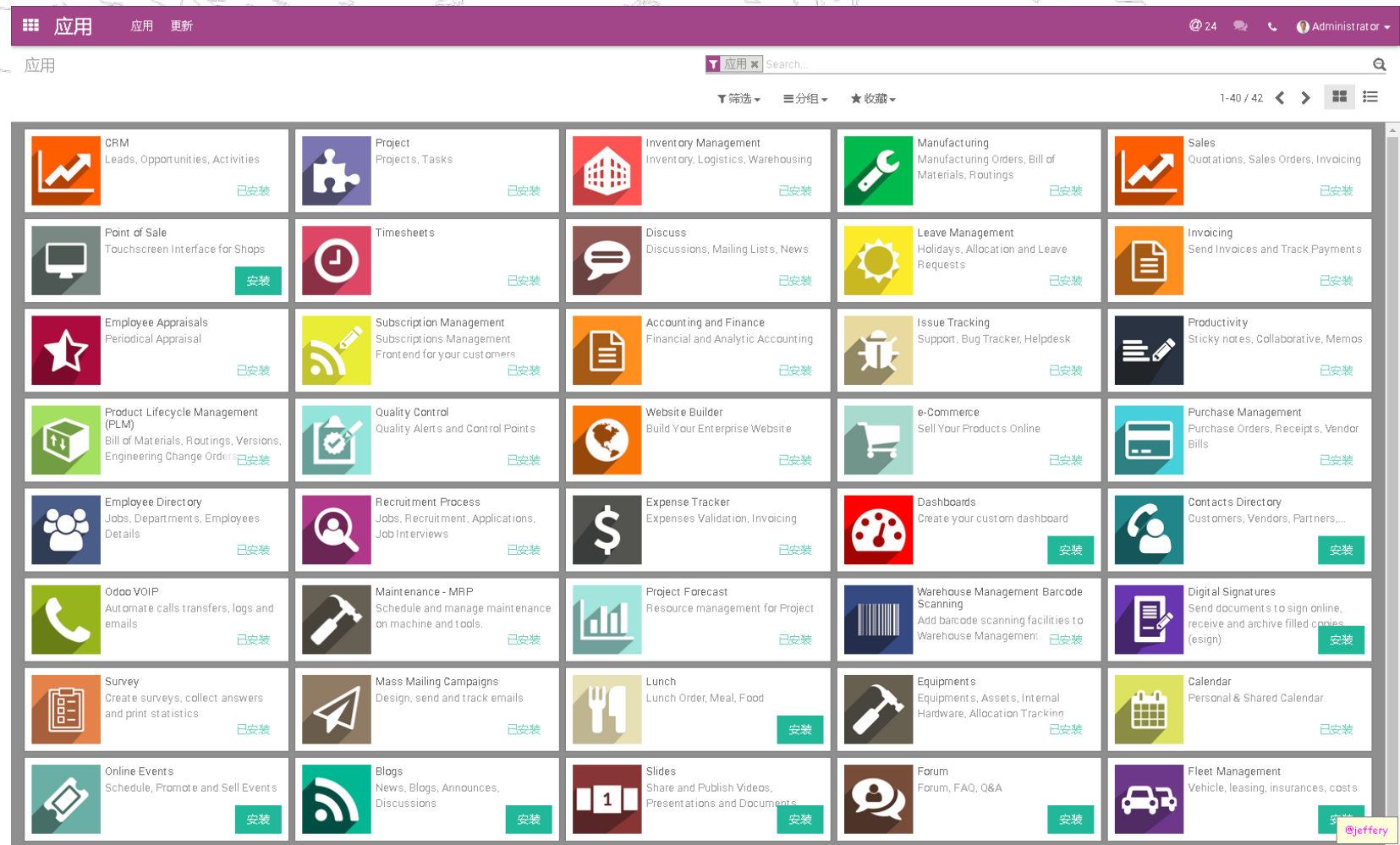
授权协议

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



@jeffery

Brief history: Odoo

2005: TinyERP 1.0-4.0

2009: OpenERP 5.0

2011: OpenERP 6.0

2012: OpenERP 6.1

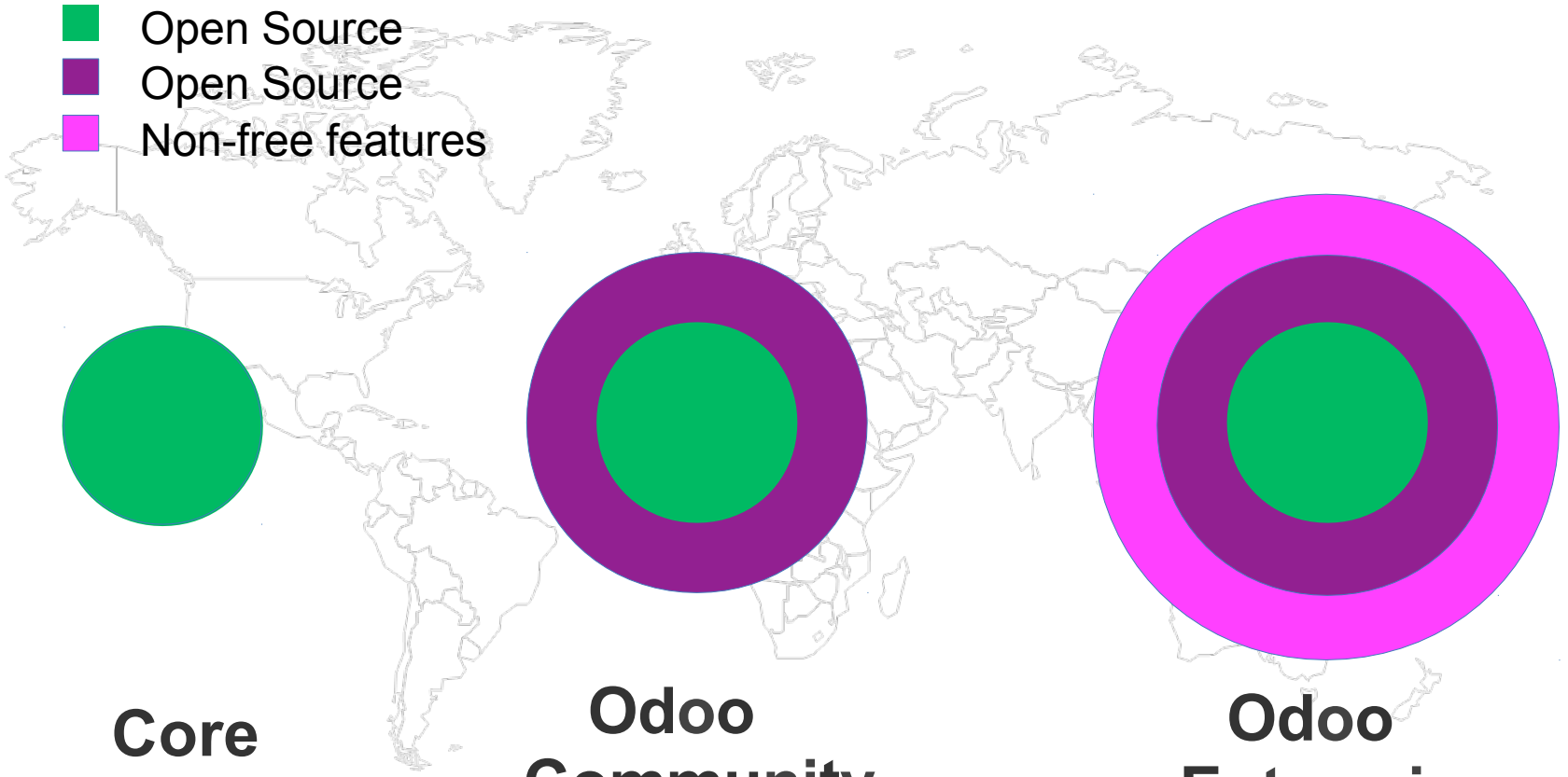
2012: OpenERP 7.0

2014: Odoo 8.0

2015: Odoo 9.0

2016: Odoo 10.0

Odoo Edition



How to use Odoo

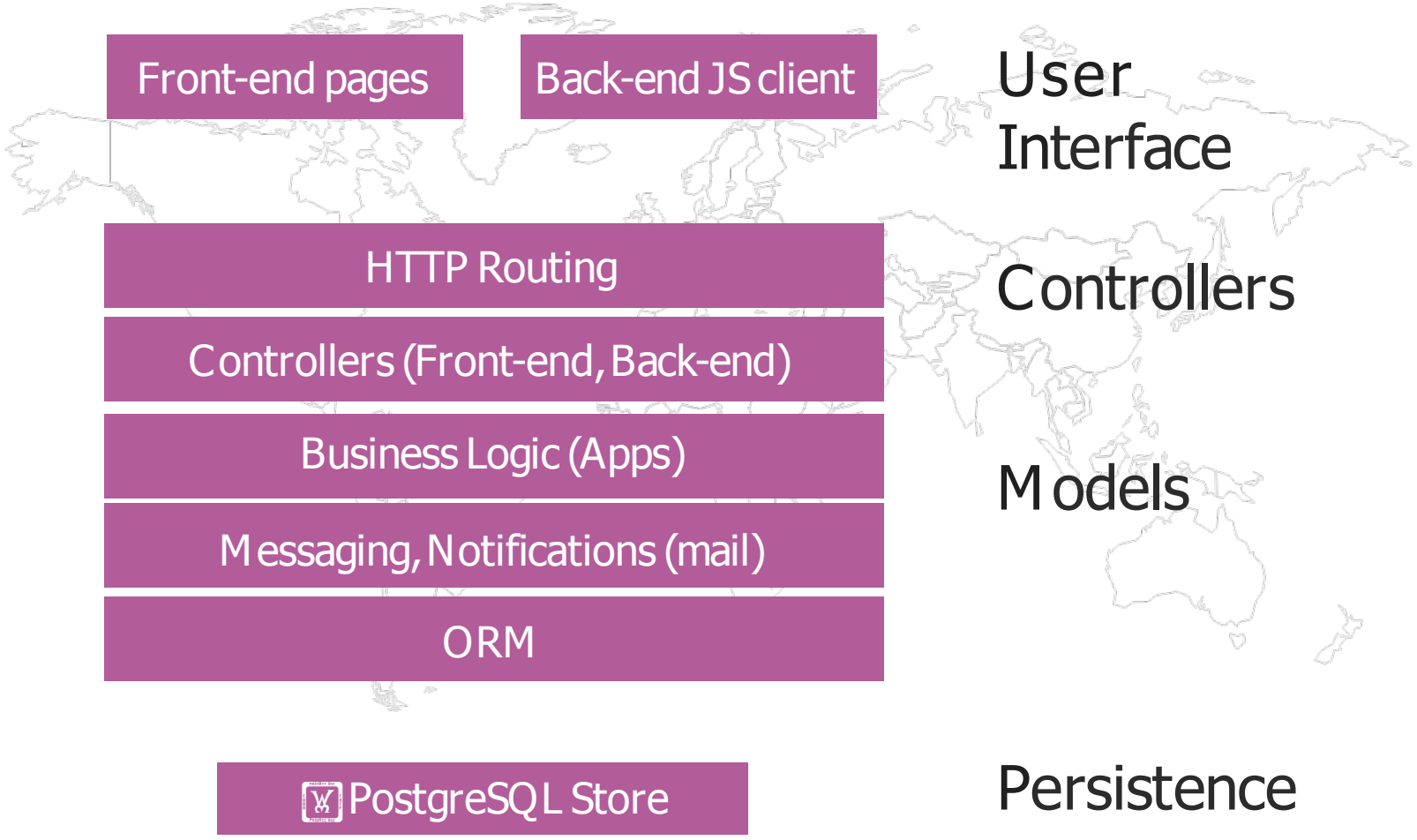
业务解决方案,大量的Odoo Apps

- 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

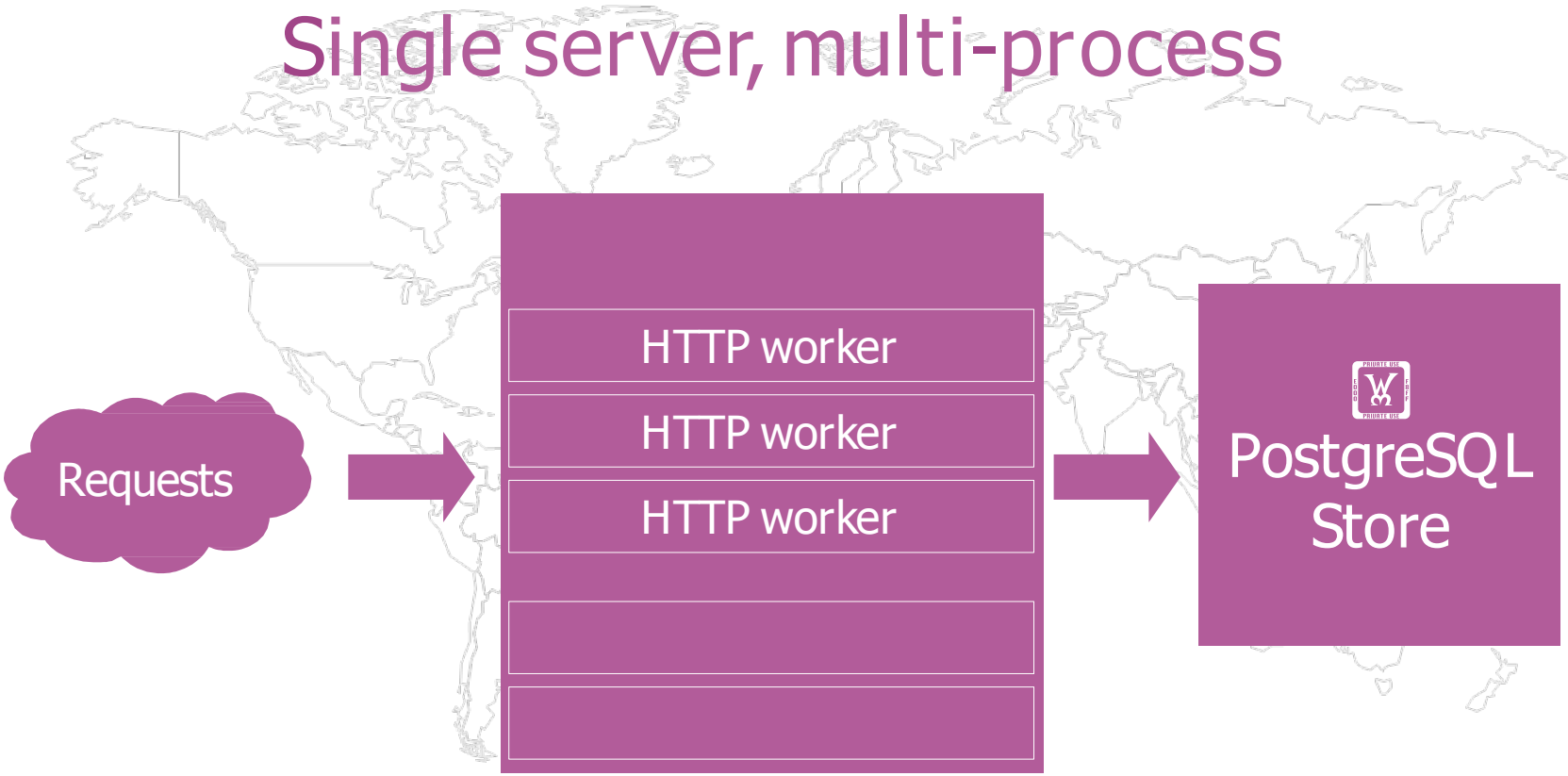
- 了解，学习
- 部署并尝试
  1. 绿色版/VM镜像
  2. 源码安装
  3. 安装包
  4. 在线saas

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

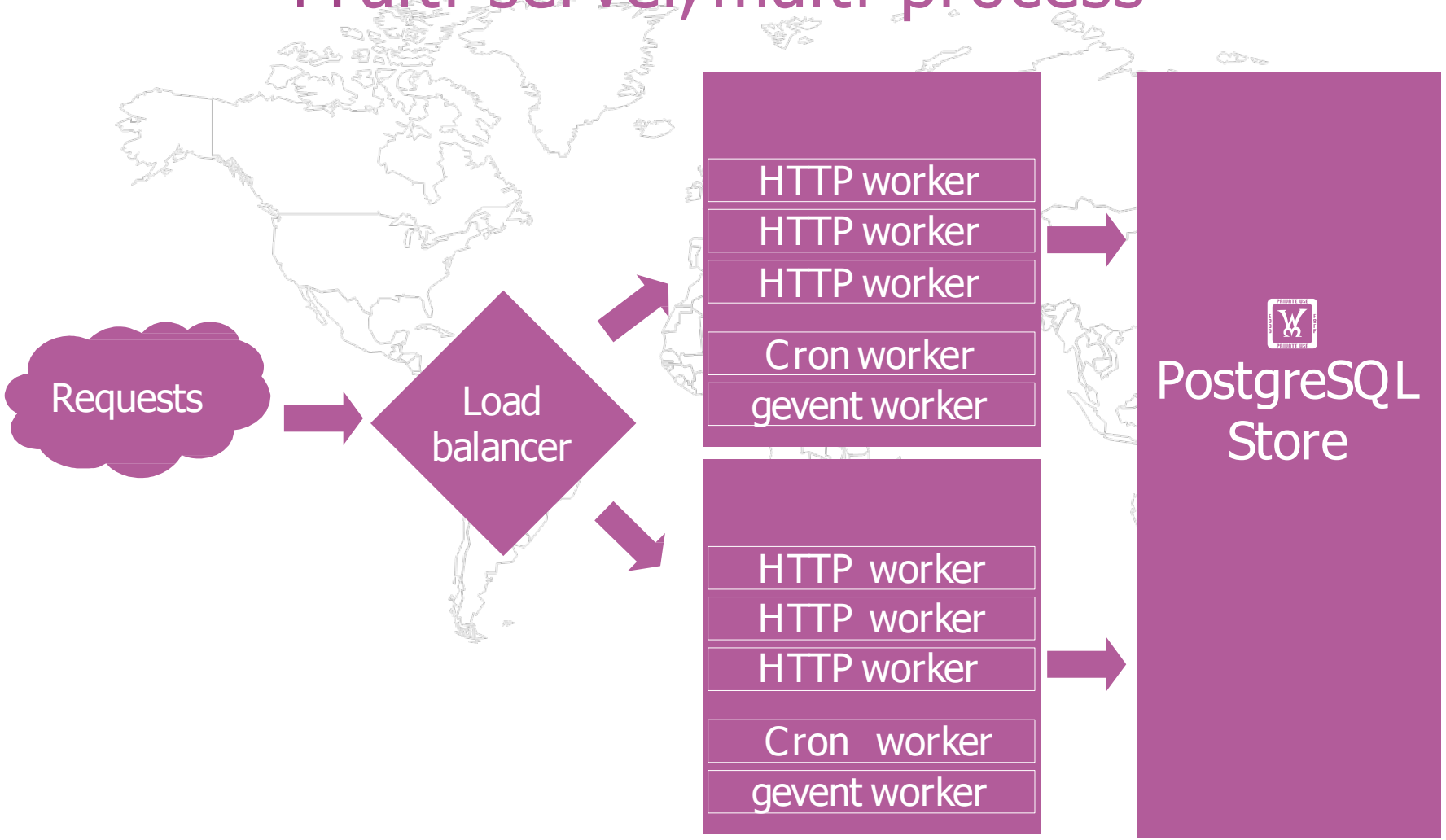
部署架构

Single server, multi-process



部署架构

Multi-server, multi-process



实施过程

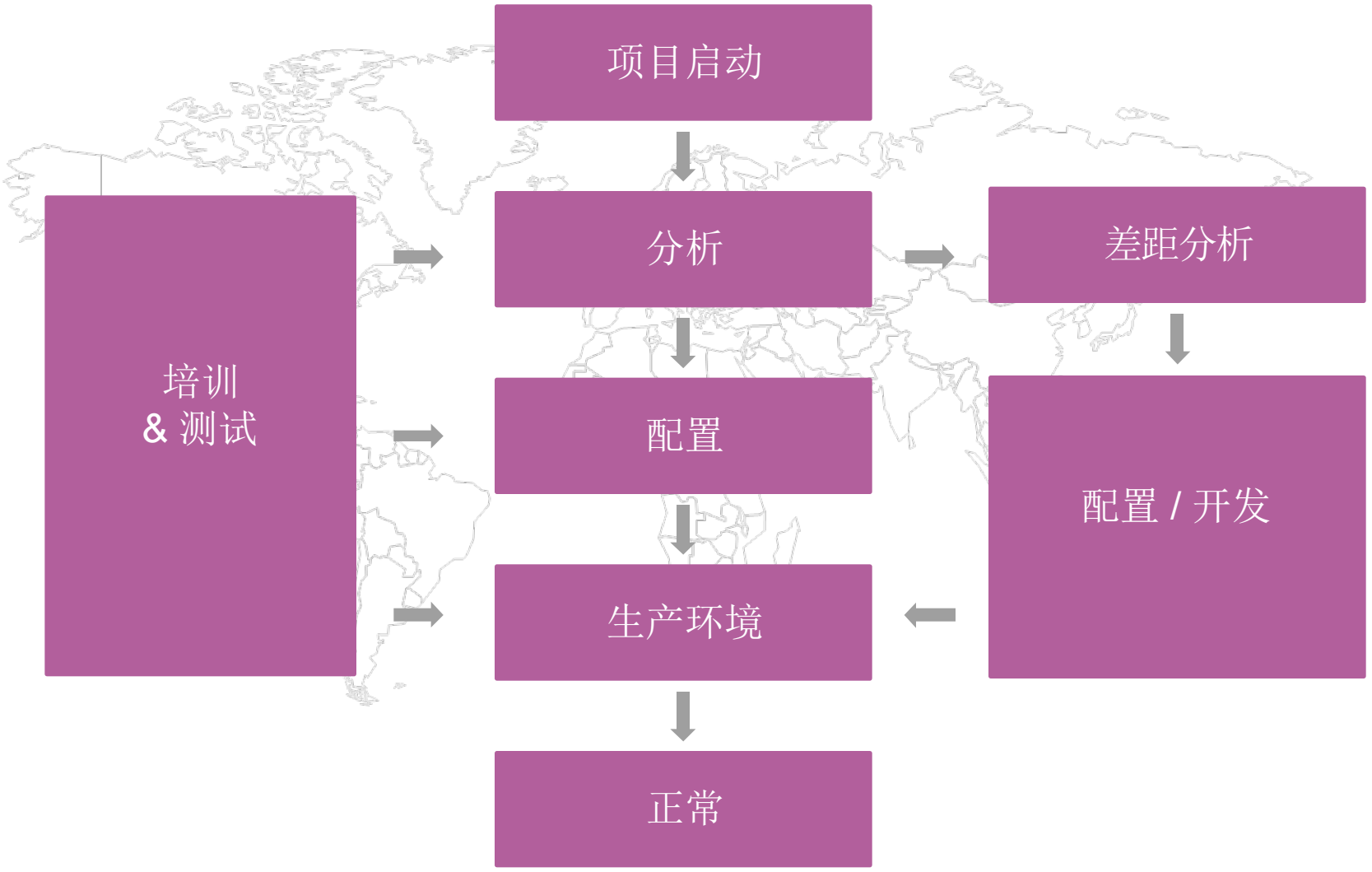
- 需求收集
- 需求分析，配置开发
- 撰写文档，培训用户
- 上线
- 支持

Velocity速度

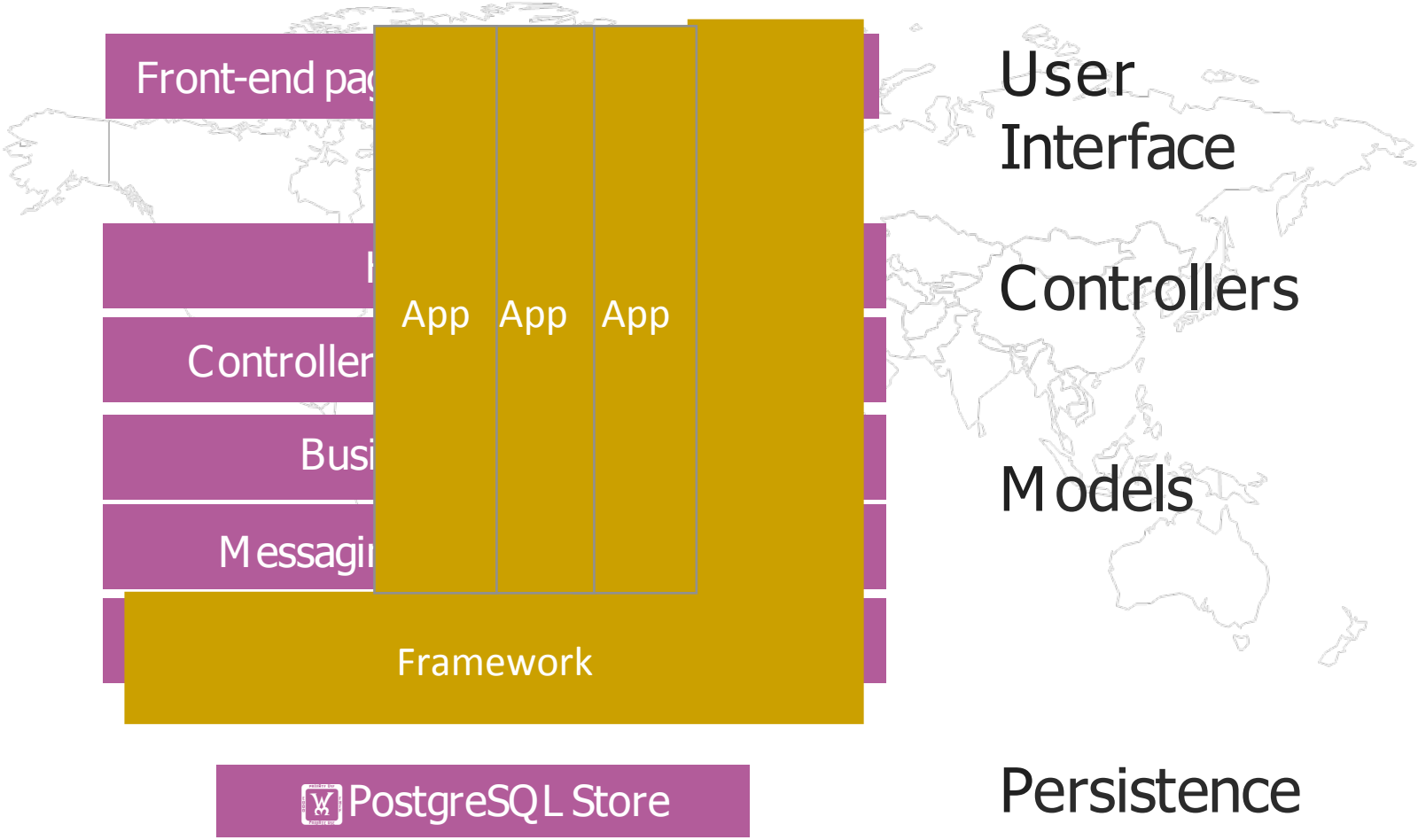
Volume体量

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", defaul
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')

@@@
                                                          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
<?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>
```

Odoo development

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

Javascripts + CSSs

```xml
<?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.backendD
ashboard.js"></script>
        <link rel="stylesheet" href="/website/static/src/less/website.backendDashbo
ard.less"/>
    </xpath>
</template>
```

web	200	document	Other	1.6 KB	42 ms
web.assets_backend.0.css	200	stylesheet	web:37	255 KB	62 ms
web.assets_backend.1.css	200	stylesheet	web:38	188 KB	67 ms
web.assets_common.0.css	200	stylesheet	web:35	135 KB	41 ms
web_editor.summernote.0.css	200	stylesheet	web:40	11.6 ...	76 ms
web_editor.assets_editor.0.css	200	stylesheet	web:42	50.2 ...	93 ms
web.assets_common.js	200	script	web:44	789 KB	149 ...
web.assets_backend.js	200	script	web:46	1.8 MB	199 ...
web_editor.summernote.js	200	script	web:55	185 KB	149 ...
web_editor.assets_editor.js	200	script	web:57	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

913547235

jeffery9

13913269807