

# **Conceptual Models**

**Workflow Identification** 



- Identify pain points
- Identify actions
- Extrapolate workflows



### **Understanding Our Target Users**

Who?

## ...Begins with User Research

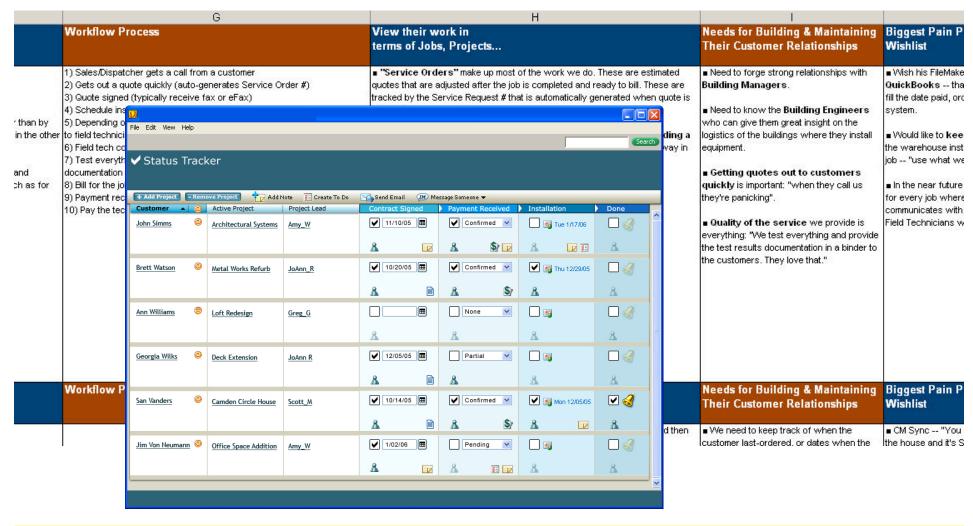
- Consistency Delivers Patterns
- Our 10-minute Small Business Interview
- Participatory Design Methodology
- Accumulate a Storehouse of Findings



#### **Understanding our Users' MOTs and Pain**

### What?

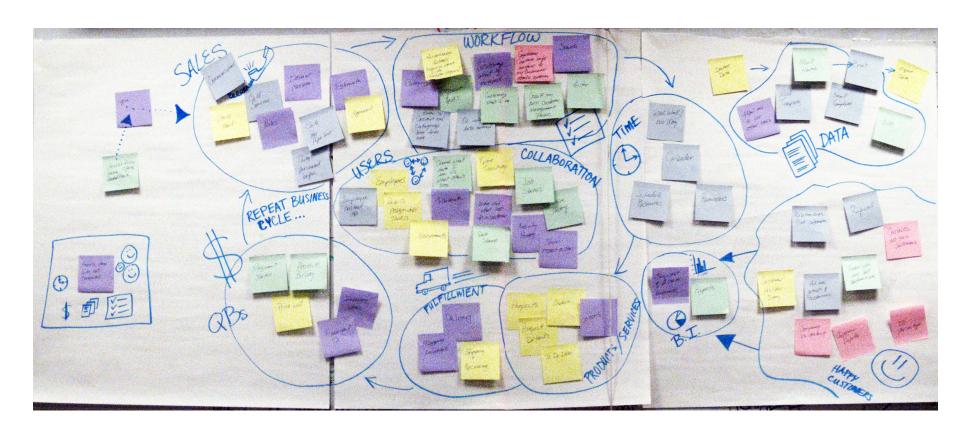
#### Data mine previous research for common tasks / workflows





### **Identify Tasks / Actions**

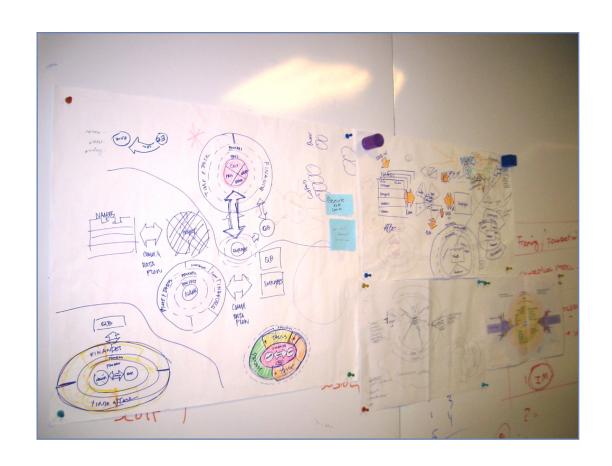
- Create multiple affinity groupings and identify categories





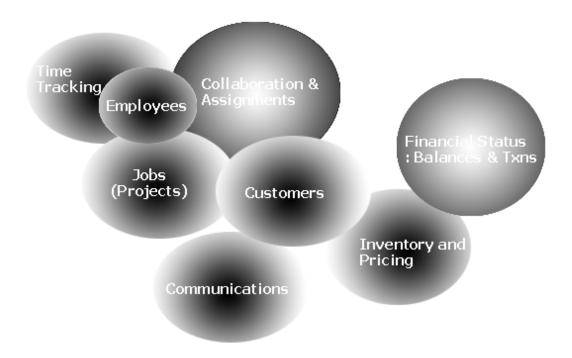
# **Group Brainstorming**

# How?



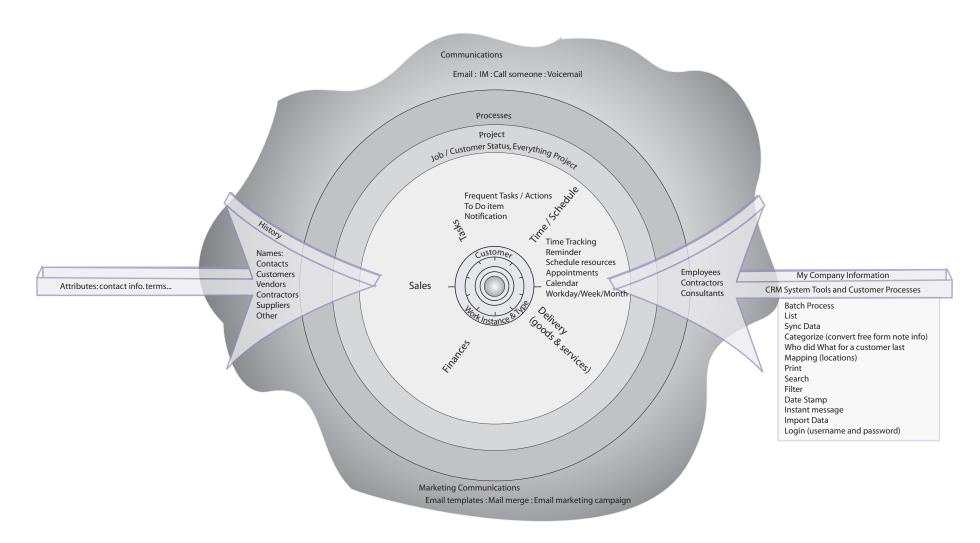


### **Beginning the Conceptual Model**



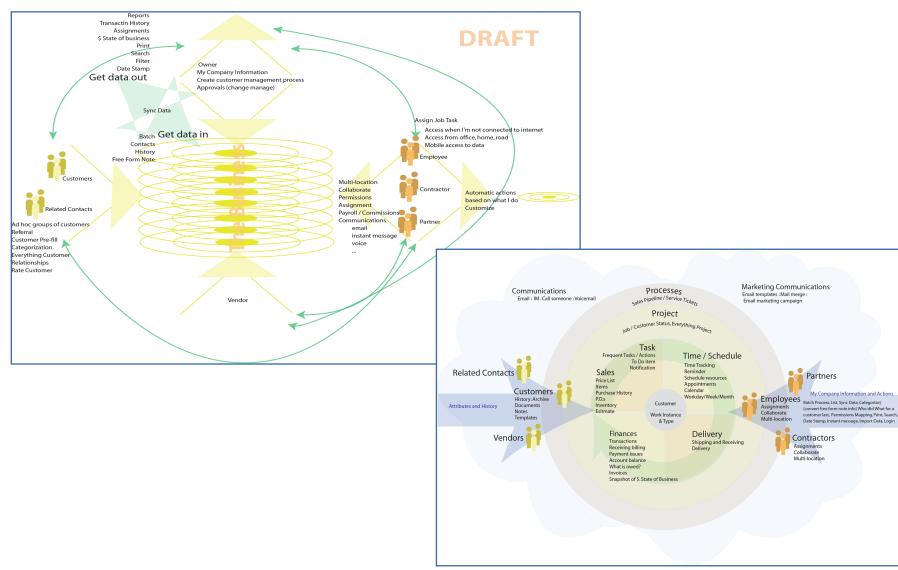


### **Iterate on the conceptual model**



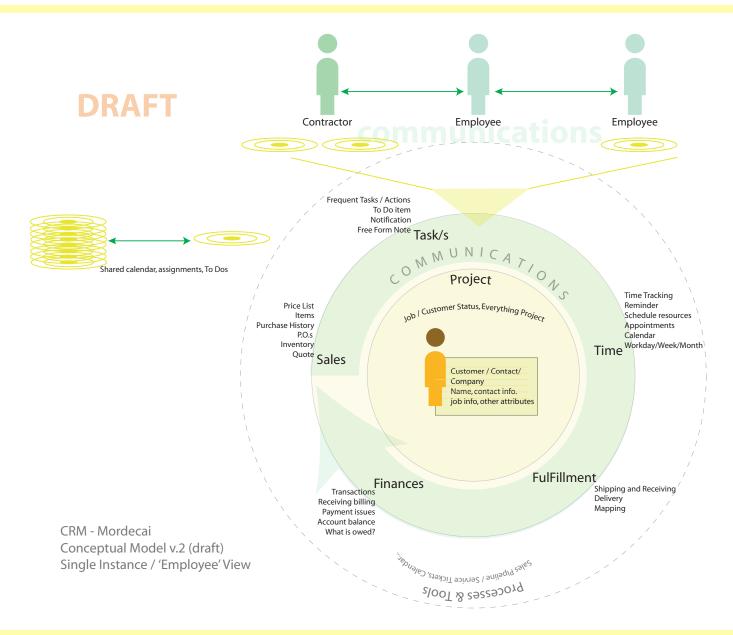


### **Iterations on conceptual models**





### Iterate on the conceptual model



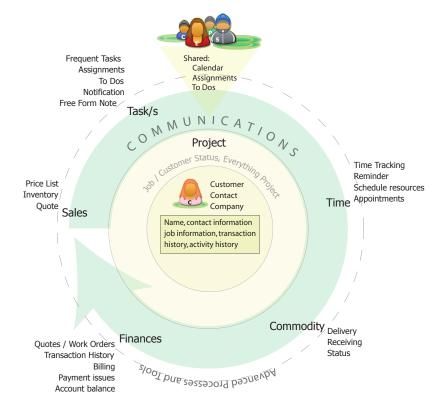


#### Iterate on the conceptual model

Small Business 360° Single Customer View

### Conceptual Mode

For a given customer each 'worker' type - in collaboration with others- acts on a series of tasks/activities that vary in duration according to business processes.



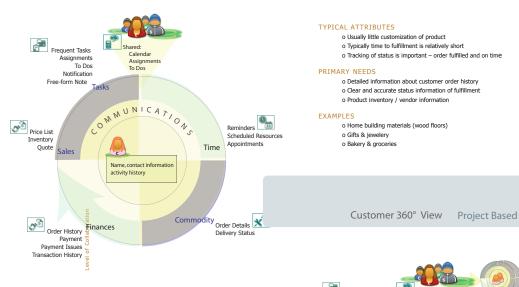




### Applying personas to the conceptual model

Customer 360° View Order Based

#### User Types



User Types

#### TYPICAL ATTRIBUTES

- o Complexity of multi-touch process with many tasks
- o High level of collaboration
- o There are often dependencies between tasks
- o Time: several days to several years
- o High level of detail
- o Need for a quote is likely
- o Possible incremental billing

#### PRIMARY NEED

- o Detailed information about project tasks and dependencies
- o Ability to assign tasks to 'workers' and view task status
- o View and add appointments to personal calendar and others' calendars

#### EXAMPLES

- o Builder/home remodeling
- o Commercial solar power installation
- o Interior design firm
- o Computer (CAD) design firm

Price List
Inventory
Quotes / Work Orders
Transaction History

Frequent Tasks

Shared:
Calendar
Assignments
To Dos
Assignments
To Dos

Project/s

Name contact information
job information, activity history

Commodity
Project

Project/s

Time Tracking
Reminder
Schedule Resources
Appointments

Commodity
Project

Delivery
Status

Mordecai SBD XD

Payment Issues Account Balance



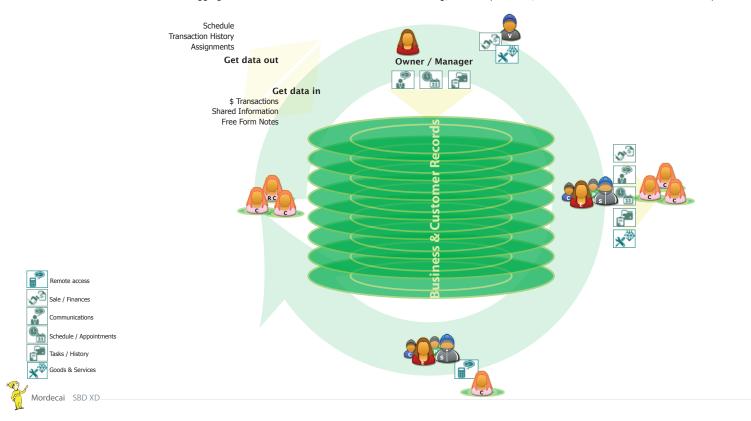
### **Current working aggregated view**

Small Business 360°

Aggregated View

#### Conceptual Mode

A business is an aggregation of customer records that includes data tracking, business processes, access methods and contributors to the system.





### **Applying personas to collaboration models**

Small Business Collaboration Overview

#### Collaboration

#### **Over Arching Characteristics**

Each worker has a role and a set of customer (records) they are responsible for. Workers are highly interdependent and need seamless access to communications from each other. Critical to have access to and be informed of customer activity history.

#### **Collaboration Actions**

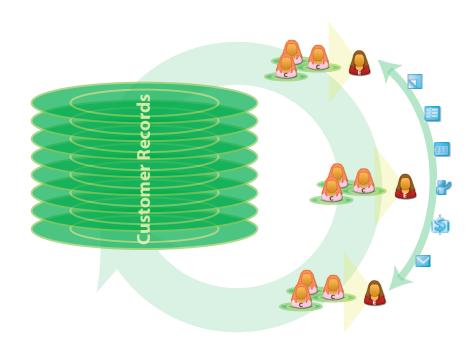
View
Assign
Notify
Respond
Modify
Delete
Initiate Workflow action
(create new object)

#### **Collaboration Methods**

e-mail
IM
Vmail
Notes
In person
Over phone
Conference

#### **Collaborative Style**

Asynchronous Continuous Real time







#### **Business Collaboration Models**

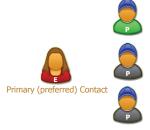
Small Business Collaboration Models: Segmentation

# Collaboration

#### **Everybody Does Everything**

Each worker has a role though many tasks 'belong' to whomever can do them. In both models workers need full access to customer information and be able to take needed action/s.





#### Secondary Contact

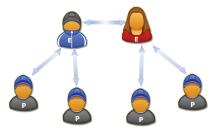
Some basic level of control for point of contact. Ability to assign each other tasks, to dos etc..

#### Begin to Specialize

Role specialization where at least once source provides instructions & assignments to other workers. Highly dependent on tracking and controling 'workers schedule' as resources for deployment. All workers do not need to view, create or modify information about a given customer. Frequently performed tasks with status monitoring.



Organize Around Roles



#### Multiple Points of Contact

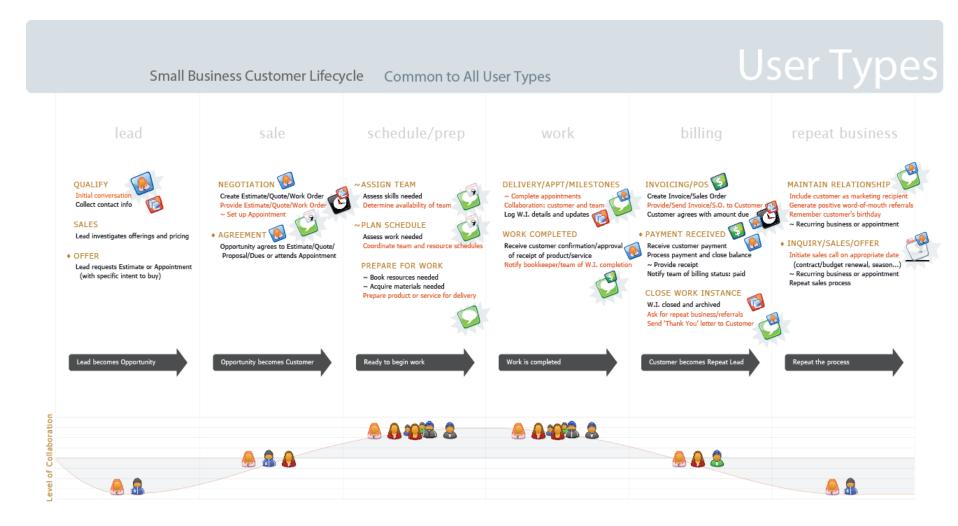
Discreet work instances sequential in nature. Touch points especially driven by what the customer needs at a given time.



Mordecai SBD UX



#### Lifecycles and the "Work Instance"



Credit to Beth Wells for this work.



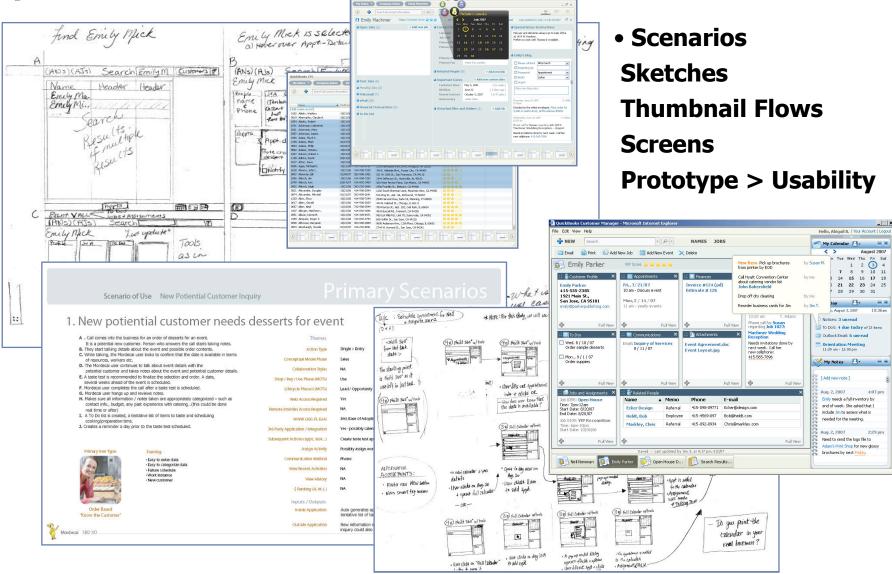
# Foundational Design and Conceptual Modeling How?

- Group brainstorming mining the collective
- Sketching the concepts together
- Conceptual Models simplifying
  - Aggregated view: across the business data
  - Single view: across a single data slice (job or customer)

#### **Outcome > Conceptual Models**



#### What followed...





# **User Object Model – QuickBooks and CMO**

