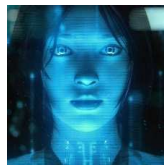
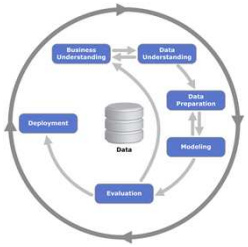
Do More With Less!!

(Work Smarter and Go Faster)



Richard Frederick, PMP (rfrederick.pmp@gmail.com; 214-755-7035 talk or text; www.linkedin.com/in/rfrederick)



CBDA CERTIFIED IIBA

ISO International Organization for Standardization

ANSI American National Standards Institute

sas

OMG OBJECT MANAGEMENT GROUP

INCOSE International Council on Systems Engineering

IEEE

PMI Project Management Institute

Scaled Agile Framework

IIBA International Institute of Business Analysis

UNIFIED MODELING LANGUAGE

W3COMPUTING A DEVELOPER REFERENCE WEBSITE

Requirements Development Management (RDM) for

Business Data Analytics

(The Language of Data)

Richard Frederick, PMP (rfrederick.pmp@gmail.com; 214-755-7035 talk or text; www.linkedin.com/in/rfrederick)

Requirements Agenda

Business Data Analytics "The Language of Data"

01-FOUNDATION

- **LAB-Introductions (Name, Job Title, Objectives)**
- Dashboards and Robots (Data Mining & Machine Learning)
- Requirements and Testing (Four Quadrants)
- What are Structured Language Requirements? (Structured English and Structured Query Language)
- Why Should You Care? (Primary Source of Project Problems)
- How Do They Work? (Discreet Intellectual Property Inventory)
- Types of Requirements (Product, Project, DATA)
- Natural Language Processing (Morphology, Semantics, Syntax and Linguistics)
- OMG-SBVR (Semantics of Business Vocabulary & Rules)
- IEEE-EARS (Easy Approach to Requirements Syntax)
- INCOSE (Rules for Writing Requirements) & QVscribe
- Waterfall and Agile (Assembly Methods)

02-ELICIT

- **LAB-Vision/Scope (Seek to Understand)**

Elicitation Techniques:

- Document Analysis (Low Hanging Fruit)
- Interface Analysis (Navigation & Functionality)
- Benchmarking (Actual Data)
- Brainstorming (Every Idea is a Good Idea until it becomes a Bad Idea)
- Prototyping (Minimum Viable Product)
- Reverse Engineering (Begin with the End in Mind)
- Interview (Thinking Questions)
- Workshop (Group Interviews)
- Observation (What do you See?)
- Survey Questionnaire (Paper equals proof)

03-ANALYZE

- What are Models? (Pictures of Language)
- **LAB-The Language of Modeling (GIVEN pre WHEN process THEN output-result)**
- Types of Models (Context-Structure, Usage, Data Behavior, Process Flow)
- Context-Structure (Vision, Roadmap, Scope WBS)
- Usage (EPIC, UseCase, UserStory, Feature)
- Data Behavior (ERD, JOIN-Denormalization, Star Schema, Dimensional OLAP, Dashboard, Intelligence)
- Data Behavior (Data Dictionary, DataFlow, Data Structure Instance, Data Element Attribute, Data Store)
- Data Behavior (Process Logic, Business Rules)
- Process Flow (Swimlane)

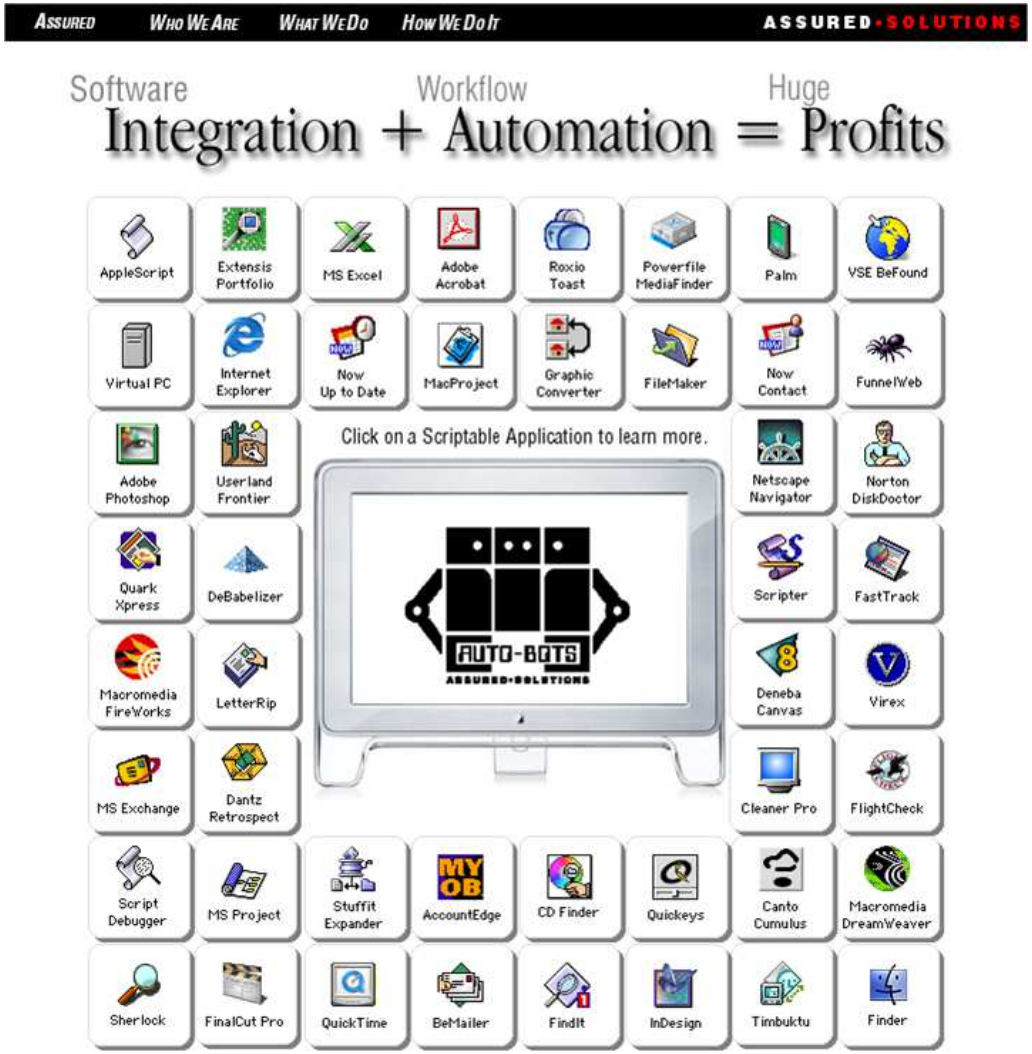
04-DOCUMENT

- Categorization, Organization, Documentation, Integration, Automation
- Making Documents Easy to Read (Fonts & Navigation)
- Document Types (BRD, TRD)
- **LAB-Business Requirement Document (Concept of Operation)**
- Technical Requirement Document (System Specification)

05-VALIDATE

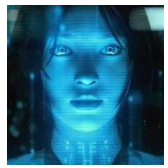
- Validation thru Triangulation (Prep Drills)
- Traceability (Project Unique Identifier)
- Requirements Baseline (ROM Estimate, Planning Estimate, Definitive Estimate)
- **LAB-Estimating Story Points (Complexity and Risk)**
- Lessons Learned (Course Wrap-Up)

Assured Solutions



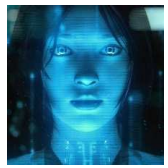
Overview "Seek to Understand"

- How to work smarter and go faster,
- Why you should care about efficiency, and
- The 3 ways that people operate



Do More With Less!!

(Work Smarter and Go Faster)



"Do More with Less!"

Work Smarter and Go Faster.

"The Cooking Show Method: everyone eats, knows something about food, and can relate to the endeavor."

1. **Design for ReUSE (Structured Requirements)**
2. **Prep in Advance (Agile Assembly)**

- *Why be Efficient?*
  - Money Loses Value Over Time.
  - 100% of the People are not 100% Productive 100% of the Time.
- *Who Cares?*
  - Anyone who works with technology.
  - Operational work will be outsourced to Machine Learning.

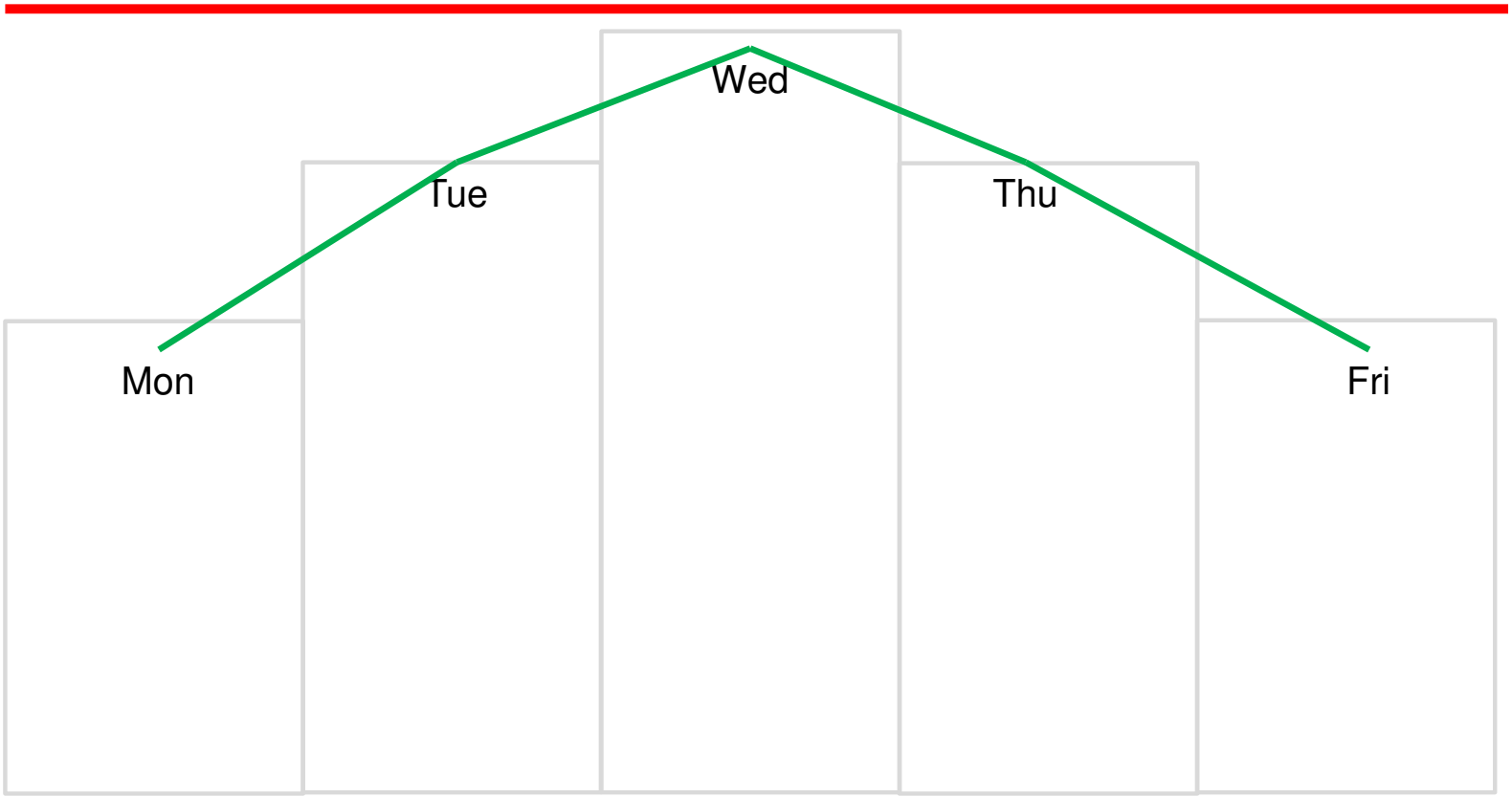
- Why Should You Care about Efficiency?
  1. **Money Loses Value over Time**
  2. **100% of your People are not 100% Productive 100% of the Time.**

1. Money Loses Value over Time because of Inflation

PV If Inflation is @ 3%	Then Year 1 $1 buys…	And Year 2 $1 buys…	And Year 3 $1 buys…
$1.00	**$0.97 worth of stuff**	**$0.94 worth of stuff**	**$.91 worth of stuff**

Network Utilization

% Productive vs "Administrivia"



100% of your People are NOT…

100% Productive…

100% of the Time.

- Studies show that most Institutions Operate at roughly 70% Productivity
  - 70% Billable Work
  - 30% Administrivia (non billable work)
- Fully Burdened Resource (Salary + Benefits + Overhead)

  $100,000 (What you are paying)

  (-) $70,000 (What you are getting)

  = **$30,000 (Opportunity for improvement)**

3 Lessons

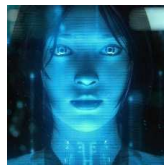
- Lesson #1: The Game is Rigged Against You
  - *(when you don't know you are in a game)*
- Lesson #2: IT is more about Psychology than Technology
- Lesson #3: The reason we all have jobs is because **Executives have KPIs (measurable objectives)**

Three Ways People Operate

1. ROUTINES
2. ReWORK
3. Need to Know

Summary “Train the Trainer”

- How to work smarter and go faster,
- Why you should care about efficiency, and
- The 3 ways that people operate



Let's stay in contact:

Richard Frederick, PMP

214-755-7035 (text or talk)

Rfrederick.pmp@gmail.com

www.meetup.com/tampa-bay-IIBA/

www.linkedin.com/in/rfrederick

meetings.hubspot.com/rfrederick-pmp