

USM Virtual Summit

Adaptive Learning

July 16, 2020



RealizeitTM

Part I – Introduction and Demonstration

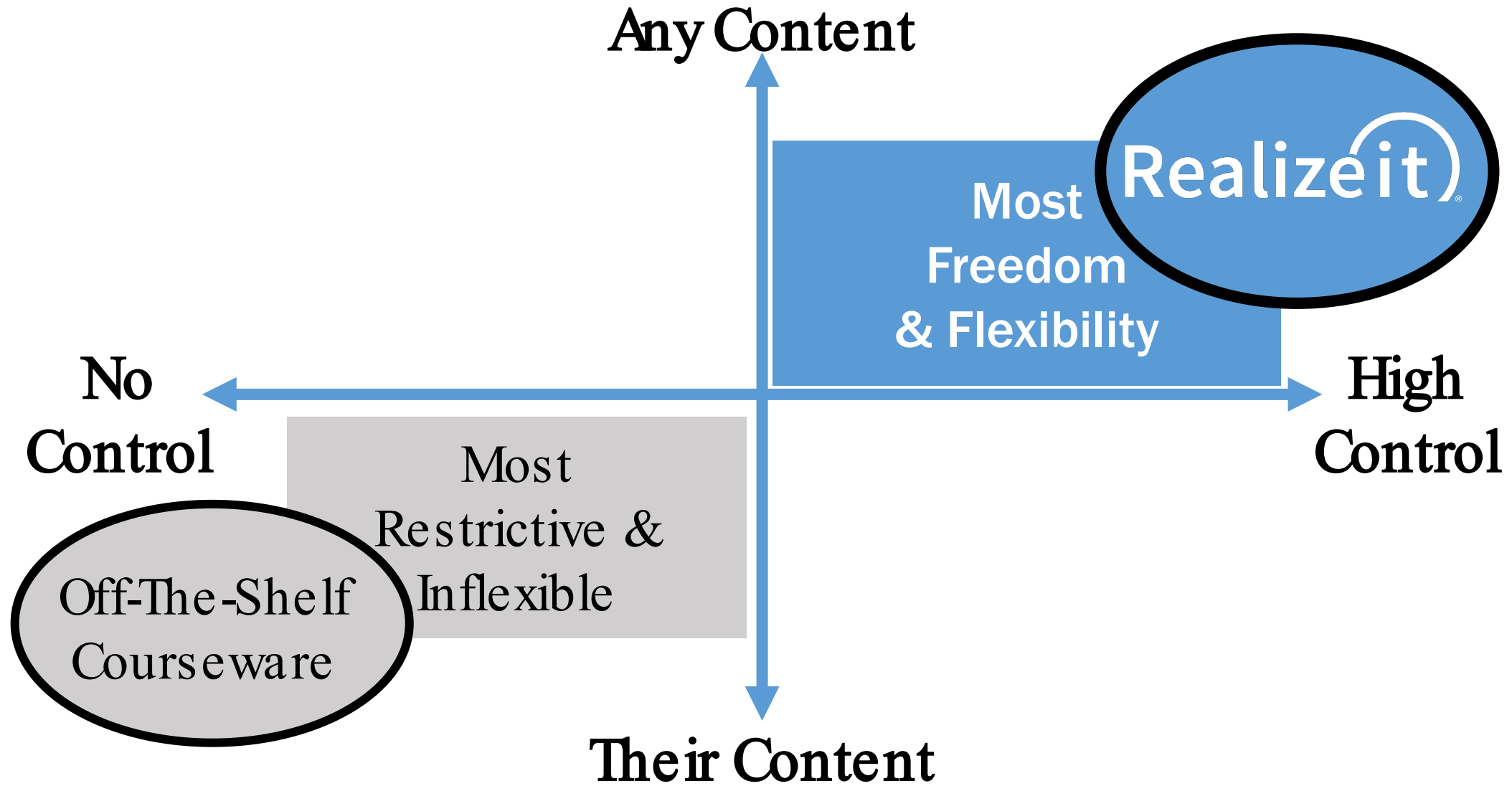


Ty Roberts
Institutional Partnerships



Prabhu Balashanmugam
Client Solutions

Consider: How Important Is Content & Control To You?



The #1 Constraint is Your Time



It's imperative that Faculty invest their time wisely to get the results they desire:

Little Effort
Little Value

More Effort
More Value

OPTIMIZE: Min. Effort; Max Value

Create The Teaching & Learning Experience You've Always Wanted



More Teaching; Less Course Admin

Elevate Student Engagement

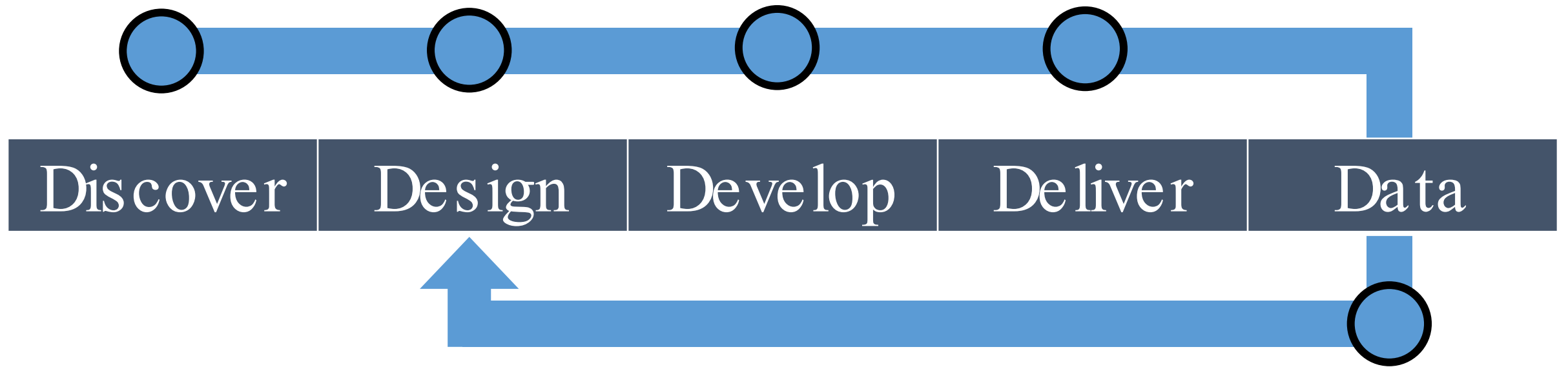
More Consistent Student Success

More Affordable for Students

Fill In The Blank _____

Let Realizeit's First-of-its-Kind Intelligent Technology Do The Heavy-Lifting For You

Your Journey with Realizeit Begins With Discovery



Typically 8-12 Week Process Start—Finish

Supported Every Step Along The Way – Thru Implementation & Iteration

Proven (5D) Methodology For Success

Discover	Design	Develop	Deliver	Data
<ul style="list-style-type: none">• What's working and what's not• The problem to be solved• Preserve vs Enhance vs Transform• Concerns, constraints and enablers for change• Define success	<ul style="list-style-type: none">• Design the overall course and where personalized learning fits• Granularize learning activities• Identify learning content and assessments	<ul style="list-style-type: none">• Build Learning Map• Ingest or Create Content & Questions• Configure Learning Product	<ul style="list-style-type: none">• Setup in your LMS• Orient and support instructor(s) and students• Manage student access – trial period, access codes, bookstore	<ul style="list-style-type: none">• End of course analytics• Content and question effectiveness• Student feedback
Important Differentiator				

So... What “Adapts” Exactly?

Learning Adapts to...

Student’s Readiness

Student’s Prior Knowledge

Student’s Current Performance

- When they do well
- When they struggle
- When they forget what they’ve learned

Student’s Demographic / Profile

Student’s Individual Preference(s)

Teaching Adapts to...

Overall Class Performance

Student Groupings:

- Working Ahead; may need a challenge
- Lagging Behind; may need intervention

Lesson Categories:

- Low Success Lessons
- High Success Lessons

Individual Student Performance and History

All Adaptivity In Service To Student Confidence & Requisite Mastery

Enter The System

Part II – Faculty Perspective



Anne Prucha
Senior Instructor of Spanish & TESOL
Department of Modern Languages



Kacie Tartt
Associate Instructor of Spanish
Department of Modern Languages

The Intrigue of Adaptive Learning

- **Freedom**
- **“Real World” Application**
- **Not “One-Size-Fits-All”**

Redesigned Two Courses

- **Redesigned Elementary Spanish I & II**
- **Eliminated Traditional Textbook and Publisher Courseware**
- **Used only Open Educational Resource (OER) materials, plus self-authored materials**

Reasons For Course Redesign

- **Prior Knowledge of Subject Matter**
- **Online Delivery Mode Challenges**
- **Traditional textbook/courseware fatigue and feedback on publisher content (by students)**
- **Improve Student Success (A, B, C grades)**
- **Reduce Drop/Fail/Withdraw (DFW) rates**
- **\$275 Textbook Cost to Student Typically Used 1-2 Semesters**

Reasons For Sticking with Adaptive Learning

- **Freedom and Creativity**
- **Autonomy and Customization**
- **Student Preference and Demand**
- **More Focus on Teaching and Mentoring; Less Admin/Support**
- **Repeating Dividends for Our Investment in Time & Effort**
- **Data and Analytics**

CRI Student Success (A,B,C)

Course	Students	Adaptive	Modality	Spring 2019	Change
SPN1120C	67	X	Online	91%	+23
SPN1121C	91	X	Online	87%	+22
CHM2211	186	X	F2F	75%	+15
BSC2010C	766	X	Mixed	84%	+11
GEB4104	32	X	RA	97%	+9
HUM2020	359		RA	81%	+9
RUS1121	29		Mixed	100%	+7
MAC1105C	20	X	Online	95%	+5
ENT4412	124	X	F2F	100%	+2
EME6613	28	X	Online	100%	0
SPC1608	100		Online	95%	-2
BSC2010C	591		Mixed	79%	-5
MUL2010	570		Online	91%	-6
MAC2311C	384	X	F2F	78%	-7

Note - Comparing Fa 2018 to Sp 2019 section taught by same teacher to redesigned section

CRI Student Withdrawal Rates

<i>Course</i>	<i>Students</i>	<i>Adaptive</i>	<i>Modality</i>	<i>Spring 2019</i>	<i>Change</i>
SPN1121C	30	X	Online	7%	-13
SPN1120C	44	X	Online	3%	-7
HUM2020	190		RA	0%	-7
RUS1121	20		Mixed	0%	-3
BSC2010C	505	X	Mixed	2%	-2
MAC1105C	888	X	Online	0%	-1
ENT4412	83	X	F2F	0%	-1
CHM2211	98	X	F2F	11%	-1
SPC1608	70		Online	3%	0
EME6613	18	X	Online	0%	0
GEB4104	17	X	RA	0%	0
MUL2010	366		Online	3%	+1
MAC2311C	222	X	F2F	4%	+2
BSC2010C	368		Mixed	6%	+5

Note - Comparing Fa 2018 to Sp 2019 section taught by same teacher to redesigned section

CRI Student Perception of Instruction

Course	Students	Adaptive	Modality	Spring 2019	Change
MAC1105C	17	X	Online	4.53	0.48
SPN1121C	30	X	Online	4.46	0.46
HUM2020	190		RA	4.30	0.45
BSC2010C	368		Mixed	4.28	0.36
BSC2010C	505	X	Mixed	4.45	0.33
RUS1121	20		Mixed	4.90	0.2
SPN1120C	44	X	Online	4.55	0.14
SPC1608	70		Online	4.40	0.1
EME6613	18	X	Online	4.44	0
MAC2311C	222	X	F2F	4.16	-0.09
MUL2010	366		Online	4.01	-0.35
ENT4412	83	X	F2F	4.47	-0.36
CHM2211	98	X	F2F	3.15	-0.38
GEB4104	17	X	RA	3.06	-1.07

Note - Comparing Fa 2018 to Sp 2019 section taught by same teacher to redesigned section

Our Journey – Past, Present, Future

Fall 2017 (PILOT)

- 3 course sections with optional Adaptive Learning component
- ~100 students

Spring 2019 – Spring 2020

- 7-8 course sections per semester
- 200-250 students per semester

Fall 2020

- 14 course sections
- ~500 students per semester

Additional Languages in Development

- Portuguese
- Italian
- French
- German

Upper-Level Spanish Course(s)

- On the drawing board

Program-Wide Implementation Plans

- 3,000+ students per year

Reflections – Our Perspective and Experience

Multiple Starting Points

Work With A Collaborator

Commit To The Process

Students Will Notice The Difference

We're Never Going Back!

Realizeit is Very Versatile...

NON-STEM

Language Arts

Business

Social Sciences

History

Political Science

STEM

Health Sciences / Nursing

Computer Sciences

Engineering

Basic Sciences

Mathematics

Q&A; Contact Information



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Thank
You!



RealizeitTM