

The Information Base for Exchange, Administration and Management (IBEAM)

Technology Innovation for the 2010 Decennial Census

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Systems Support Division
U.S. Census Bureau

Agenda

- IBEAM Background
- Technology Innovation
- Innovative Approach
- Future Plans

Agenda - continued

Topics that won't be covered:

- IBEAM Demonstration
- Discussion of most of the IBEAM capabilities

The presenters will be happy to cover these and other topics in more appropriate forums.

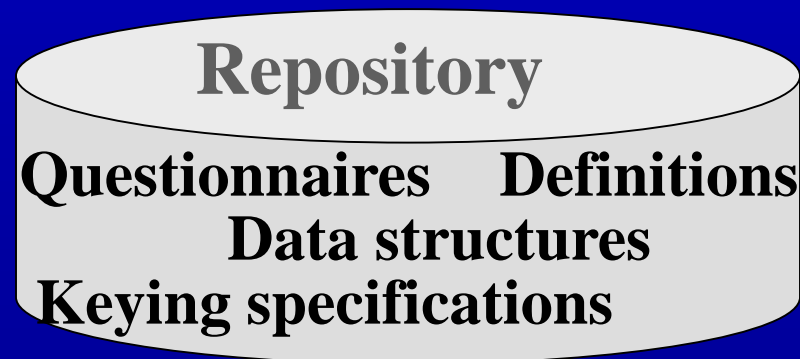
Agenda Topic: IBEAM Background

IBEAM: Metadata-driven system that supports paper questionnaire: Content development, Design, Capture, Processing, Analysis & Tabulation.

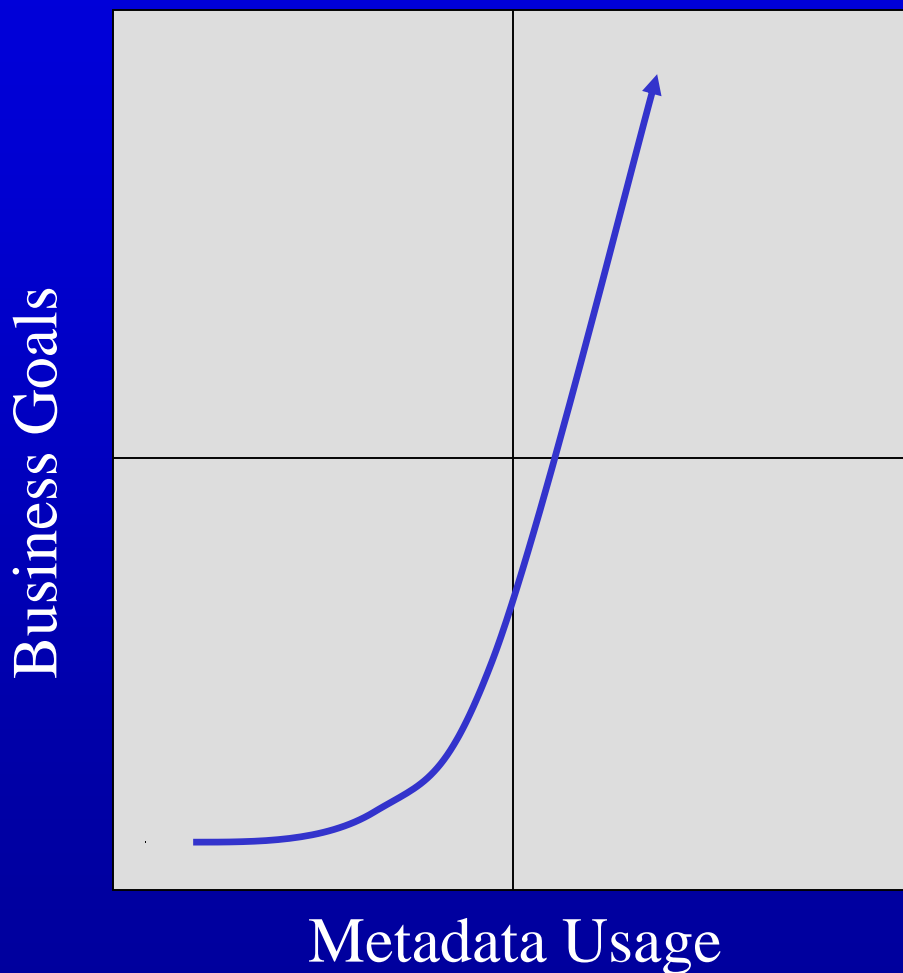


40⁺

2010 Decennial
Questionnaires



IBEAM Background - continued

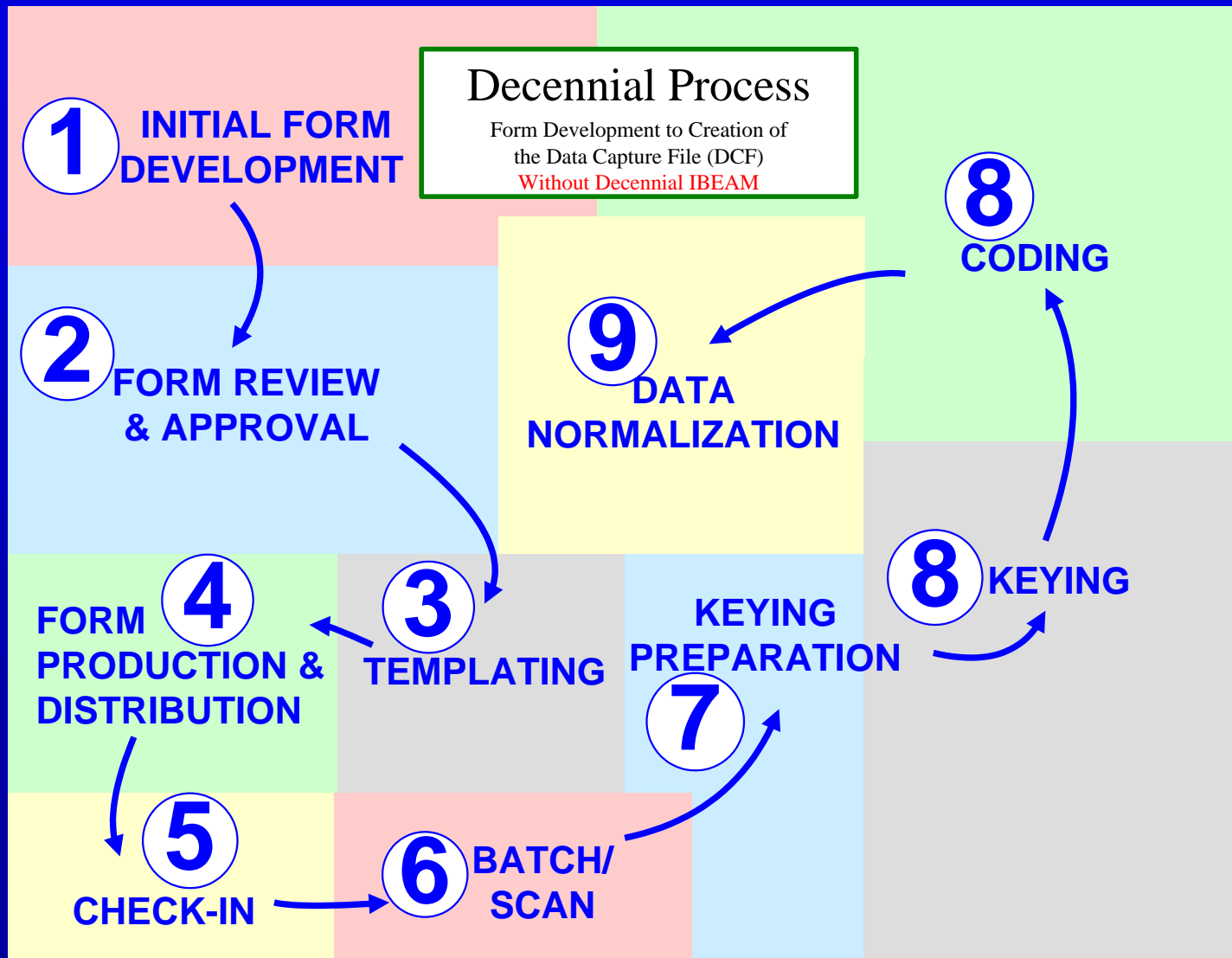


**Business goals
achieved rapidly
through the use of
structured metadata...**

**....confirming the
success possible
through leveraged
metadata.**

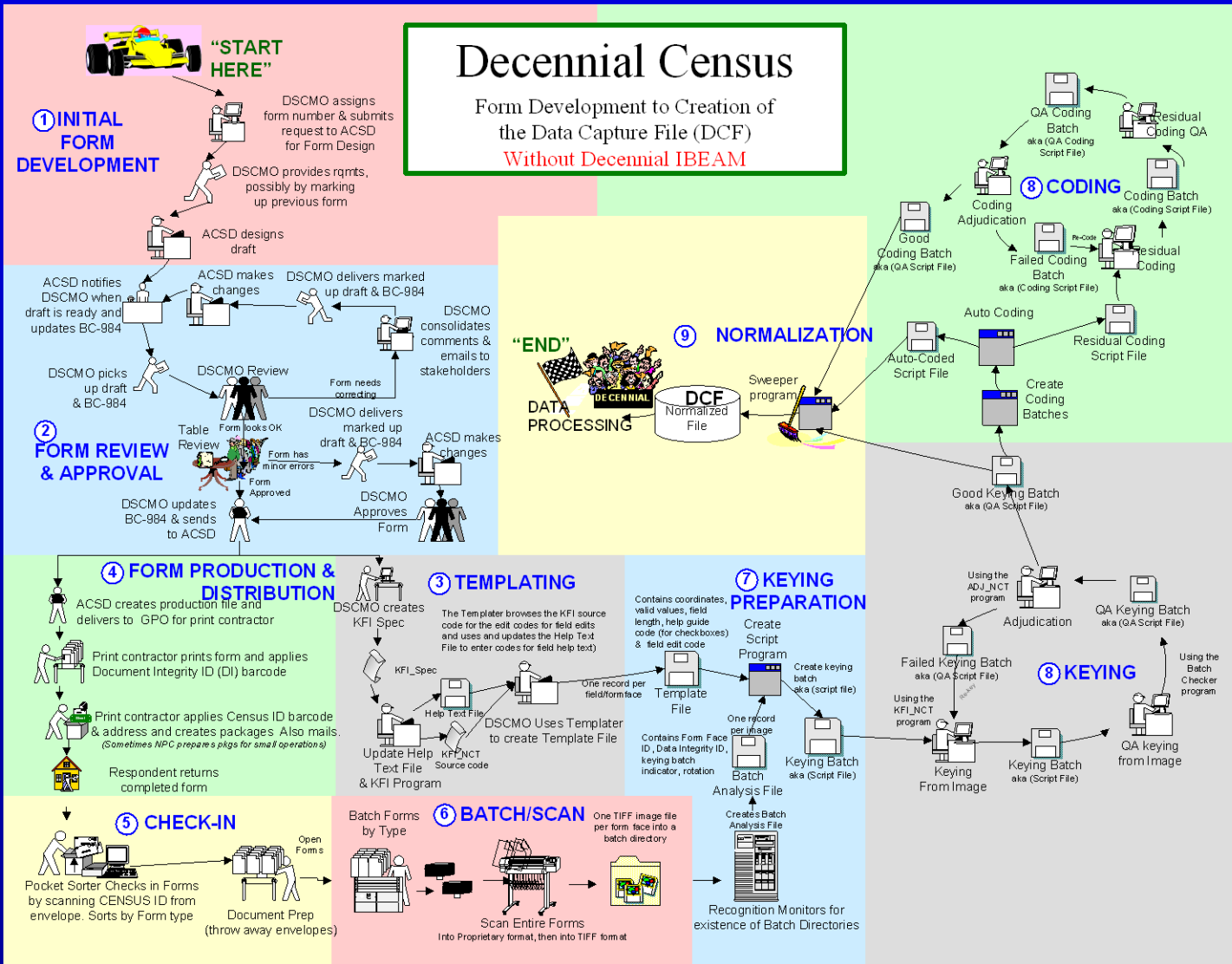
Agenda Topic: Technology Innovation

“Define the Business – High Level”



Technology Innovation - continued

“Define the Business – Low Level”



Technology Innovation - continued

“Identify Improvement Goals”

1 INITIAL FORM DEVELOPMENT

Multiple Roles
(Layout Designer, Content Specialist ...)

2 FORM REVIEW & APPROVAL

Improvements Required

1. Reduce Time to Create Initial Layout Design
2. Improve Quality of Content
3. Reduce Reliance on Heroes through Standardization

Technology Innovation - continued

“Define Features to Achieve Improvement”

Improvements Required	IBEAM Features to Achieve Improvement
1. Reduce Time to Create Initial Layout Design	1. Integration between IBEAM and COTS Software to reduce layout effort
2. Improve Quality of Content	2a. Preview simulated layout with interspersed annotations 2b. Content Compare functionality for determining consistency
3. Reduce Reliance on Heroes through Standardization	3. Generic and Standardized Support for graphical objects in questionnaires

Technology Innovation - continued

“Utilize Technology to Make it Happen”

IBEAM Features to Achieve Improvement	Technology
1. Integration between IBEAM and COTS Software to reduce layout effort	1. XML Interchange & Web Distributed Authoring & Versioning (WebDAV)
2a. Preview simulated layout with interspersed annotations	2a HTML & Javascript
2b. Content Compare functionality for determining consistency	2b Hashing Algorithm
3. Generic and Standardized Support for graphical objects in questionnaires	3. Universal Graphic Objects

U.S. DEPARTMENT OF COMMERCE
U.S. CENSUS BUREAU

This is the official form for all the people at this address.
It is quick and easy, and your answers are protected by law.

Use a blue or black pen.
Start here

The Census must count every person living in the United States on April 1, 2010.

Before you answer Question 1, count the people living in this house, apartment, or mobile home using our guidelines.

Count all people, including babies, who live and sleep here most of the time.

The Census Bureau also conducts counts in institutions and other places, too:

- Do not count anyone living away either at college or in the Armed Forces.
- Do not count anyone in a nursing home, jail, prison, detention facility, etc., on April 1, 2010.
- Leave these people off your form, even if they will return to live here after they leave college, the nursing home, the military, jail, etc. Otherwise, they may be counted twice.

The Census must also include people without a permanent place to stay, too:

- If someone who has no permanent place to stay is staying here on April 1, 2010, count that person. Otherwise, he or she may be missed in the census.

1. How many people were living or staying in this house, apartment, or mobile home on April 1, 2010?
Number of people =

2. Were there any additional people staying here April 1, 2010 that you did not include in Question 1? Mark Yes No. If Yes, explain why.

Children, such as newborn babies or foster children
Relatives, such as adult children, cousins, or in-laws
Nieces/nephews, such as roommates or live-in baby sitters
People staying here temporarily
No additional people

3. In this house, apartment, or mobile home — Mark ONE MORE than one.

Owned by you or someone in this household with a mortgage or loan? Include home equity loans.
Owned by you or someone in this household free and clear (without a mortgage or loan)?
Rented?
Occupied without payment of rent?

4. What is your telephone number? We may call if we don't understand an answer.
Area Code + Number:

OMB No. 5600-0042-9; Approved Expires 12/31/2014
U.S. DEPARTMENT OF COMMERCE
U.S. CENSUS BUREAU

5. Please provide information for each person living here. Start with a person living here who owns or rents this house, apartment, or mobile home. If the owner or renter lives somewhere else, start with any adult living here. This will be Person 1.
What is Person 1's name? Print name below:
Last Name:
First Name: MI:

6. What is Person 1's sex? Mark ONE box.
 Male Female

7. What is Person 1's age and what is Person 1's date of birth? Please report babies as age 0 when the child is less than 1 year old. Print numbers in boxes.
Age on April 1, 2010: Month Day Year of birth:
NOTE: Please answer BOTH Question 8 about Hispanic origin and Question 9 about race. For this census, Hispanic origins are not races.

8. Is Person 1 of Hispanic, Latino, or Spanish origin?
 No, not of Hispanic, Latino, or Spanish origin
 Yes, Mexican, Mexican Am., Chicano
 Yes, Puerto Rican
 Yes, Cuban
 Yes, another Hispanic, Latino, or Spanish origin — Print race, for example, Argentine, Colombian, Dominican, Salvadoran, Spanish and so on.

9. What is Person 1's race? Mark one or more boxes.
 White
 Black, African Am., or Negro
 American Indian or Alaska Native — Print name of enrolled or principal tribe.

Asian Indian Japanese Native Hawaiian
 Chinese Korean Guamanian or Chamorro
 Filipino Vietnamese Samoan
 Other Asian — Print race, for example, Hmong, Laotian, Thai, Pakistani, Cambodian, and so on.

10. Does Person 1 sometimes live or stay somewhere else?
 No Yes — Mark all that apply.
 In college housing For child custody
 In the military In jail or prison
 At a seasonal or second residence In a nursing home or another reason
 For another reason

If more people were counted in Question 1, continue with Person 2.

U.S. GOVERNMENT PRINTING OFFICE: 2010-10-26-268 of 481

Before Synchronization

9. What is Person 1's race? Mark one or more boxes.

- White
 Black, African Am., or Negro
 American Indian or Alaska Native — Print name of enrolled or principal tribe.
- Asian Indian Japanese Native Hawaiian
 Chinese Korean Guamanian or Chamorro
 Filipino Vietnamese Samoan
 Other Asian — Print race, for example, Hmong, Laotian, Thai, Pakistani, Cambodian, and so on.
- Other Pacific Islander — Print race, for example, Fijian, Tongan, and so on.

After Synchronization

9. What is Person 1's race? Mark one or more boxes.

- White Android
 Black, African Am., or Negro
 American Indian or Alaska Native — Print name of enrolled or principal tribe.
- Asian Indian Japanese Native Hawaiian
 Chinese Korean Guamanian or Chamorro
 Filipino Vietnamese Samoan
 Other Asian — Print race, for example, Hmong, Laotian, Thai, Pakistani, Cambodian, and so on.
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People staying here temporarily
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Owned by you or someone in this household free and clear (without a mortgage or loan)?
Rented?
Occupied without payment of rent?

4. What is your telephone number? We may call if we don't understand an answer.
Area Code + Number:

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 Yes, Puerto Rican
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 At a seasonal or second residence In a nursing home or another reason
 For another reason

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U.S. GOVERNMENT PRINTING OFFICE: 2010-10-26-268 of 481

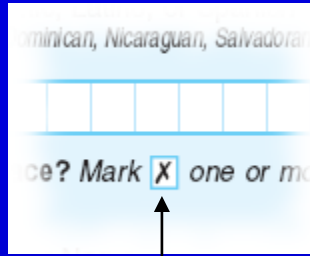
Universal Graphic Objects

UGO Name	Description
TEST_MS_UGO_TEMPL	
TEST_MS_UGO_Templat	
XMark	Special Character
XMark2	Special Character
XMark2Scatched	Special Character
bull	Special Character
gt	Special Character
lt	Special Character

Image

XMark2

IBEAM



Final Questionnaire

Content Synchronization

Before

9. What is Person 1's race? Mark one or more boxes.

White
 Black, African Am., or Negro
 American Indian or Alaska Native — Print name of enrolled or principal tribe. ↘

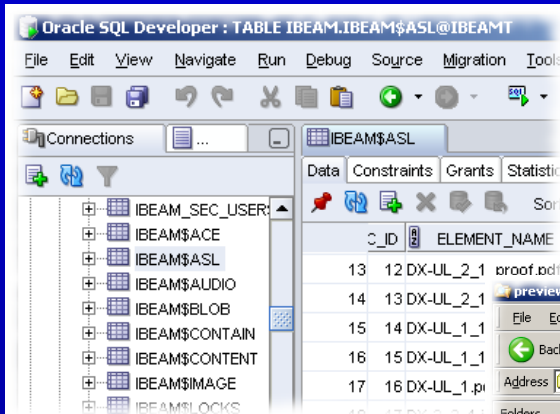
Asian Indian Japanese Native Hawaiian
 Chinese Korean Guamanian or Chamorro
 Filipino Vietnamese Samoan
 Other Asian — Print race, for example, Hmong, Laotian, Thai, Pakistani, Cambodian, and so on. ↘ Other Pacific Islander — Print race, for example, Fijian, Tongan, and so on. ↘

After

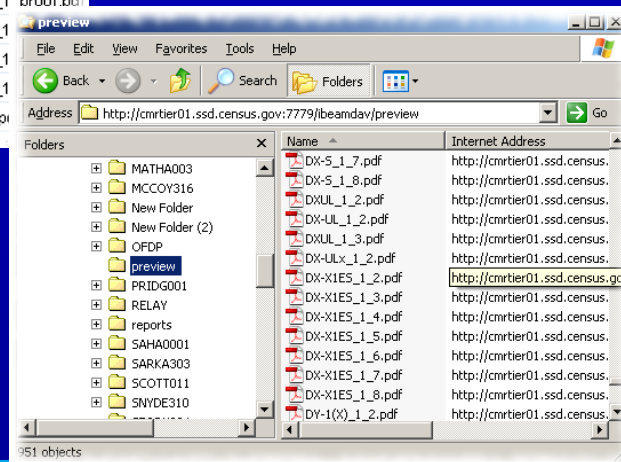
9. What is Person 1's race? Mark one or more boxes.

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 Black, African Am., or Negro
 American Indian or Alaska Native — Print name of enrolled or principal tribe. ↘

Asian Indian Japanese Native Hawaiian
 Chinese Korean Guamanian or Chamorro
 Filipino Vietnamese Samoan
 Other Asian — Print race, for example, Hmong, Laotian, Thai, Pakistani, Cambodian, and so on. ↘ Other Pacific Islander — Print race, for example, Fijian, Tongan, and so on. ↘



Oracle Webdav Folders



<p>Census 2010 D-1(ES) 2010 Census</p>		<p>US DEPARTMENT OF COMMERCE Economics and Statistics Administration U.S. CENSUS BUREAU</p>	
<input checked="" type="checkbox"/> Hide Response Field Names		<input type="checkbox"/> Hide Spanish Content	
<input type="checkbox"/> Hide English Content		<input type="checkbox"/> Show Questionnaire Details	
<p>MOMB-HH(Face-Page:1-1)</p>		<p>SP-MOMB-HH(Face-Page:1-1)</p>	
<p>2010 Census</p> <p>This is your official U.S. Census form. It is quick, easy, and your answers are protected by law. Please complete your form in the language most comfortable for you and return it today.</p> <p>(No question text)</p> <p>Use a blue or black pen.</p> <p>The Census must count every person living in the United States on April 1, 2010. Before you answer Question 1, count the people living in this house, apartment, or mobile home using our guidelines.</p> <ul style="list-style-type: none"> Count all people, including babies, who live and sleep here most of the time. <p>The Census Bureau also conducts counts in institutions and other places, so:</p> <ul style="list-style-type: none"> Do not count anyone living away either at college or in the Armed Forces. Do not count anyone in a nursing home, jail, prison, detention facility, etc., on April 1, 2010. Leave these people off your form, even if they will return to live here after they leave college, the nursing home, the military, jail, etc. Otherwise, they may be counted twice. <p>The Census must also include people without a permanent place to stay, so:</p> <ul style="list-style-type: none"> If someone who has no permanent place to stay is staying here on April 1, 2010, count that person. Otherwise, he or she may be missed in the census. <p>1. How many people were living or staying in this house, apartment, or mobile home on April 1, 2010?</p> <p>Number of people =</p> <input type="text"/>		<p>2010 Censo</p> <p>Éste es su cuestionario oficial del Censo de los EE.UU. Es fácil, rápido de contestar y sus respuestas están protegidas por ley. Por favor, complete su cuestionario en el idioma que le sea más cómodo y devuélvalo por correo hoy.</p> <p>(No question text)</p> <p>Use un bolígrafo de tinta azul o negra.</p> <p>El Censo tiene que contar a cada persona que vive en los Estados Unidos el 1 de abril de 2010.</p> <p>Antes de contestar la Pregunta 1, cuente a las personas que viven en esta casa, apartamento o casa móvil usando nuestras instrucciones.</p> <ul style="list-style-type: none"> Cuente a todas las personas, incluyendo a bebés, que viven y duermen aquí la mayor parte del tiempo. <p>La Oficina del Censo también lleva a cabo recuentos en instituciones y otros lugares, por lo tanto:</p> <ul style="list-style-type: none"> No cuente a alguien que no vive aquí por estar en la universidad o en las Fuerzas Armadas. No cuente a alguien que está en un hogar de convalecencia, cárcel, prisión, centro de detención, etc., el 1 de abril de 2010. No incluya a estas personas en su cuestionario, aunque vuelvan a vivir aquí después de salir de la universidad, hogar de convalecencia, ejército, cárcel, etc. De otra manera, serán contadas dos veces. <p>El Censo también tiene que incluir a las personas sin un lugar permanente donde quedarse, por lo tanto:</p> <ul style="list-style-type: none"> Si alguien sin un lugar permanente donde quedarse se está quedando aquí el 1 de abril de 2010, cuente a esa persona. De lo contrario, puede que no sea contada en el censo. <p>1. ¿Cuántas personas vivían o se quedaban en esta casa, apartamento o casa móvil el 1 de abril de 2010?</p> <p>Número de personas =</p> <input type="text"/>	
<p>2. Were there any <u>additional</u> people staying here April 1, 2010 that you <u>did not include</u> in Question 1?</p> <p>Mark <input checked="" type="checkbox"/> all that apply.</p> <p><input type="checkbox"/> Children, such as newborn babies or foster children</p> <p><input type="checkbox"/> Relatives, such as adult children, cousins, or in-laws</p> <p><input type="checkbox"/> Nonrelatives, such as roommates or live-in baby sitters</p>		<p>2. ¿Había personas <u>adicionales</u> quedándose aquí el 1 de abril de 2010 que usted <u>no incluyó</u> en la Pregunta 1?</p> <p>Marque <input checked="" type="checkbox"/> todas las que apliquen.</p>	

Census 2010 D-1(ES) 2010 Census		US DEPARTMENT OF COMMERCE Economics and Statistics Administration U.S. CENSUS BUREAU	
<input type="checkbox"/> Hide Response Field Names		<input type="checkbox"/> Hide English Content	
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MOMB-HH(Face-Page:1-1)		SP-MOMB-HH(Face-Page:1-1)	
2010 Census [Question Category: TITLEsp, Version: 8, Hidden]		2010 Censo [Question Category: TITLEsp, Version: 8, Hidden]	
<p>This is your official U.S. Census form. It is quick, easy, and your answers are protected by law. Please complete your form in the language most comfortable for you and return it today. [Question Category: INTRO, Version: 3]</p> <p>(No question text) [Question Category: Total Pop, Version: 53]</p> <p>Use a blue or black pen.</p> <p>The Census must count every person living in the United States on April 1, 2010.</p> <p>Before you answer Question 1, count the people living in this house, apartment, or mobile home using our guidelines.</p> <ul style="list-style-type: none"> Count all people, including babies, who live and sleep here most of the time. <p>The Census Bureau also conducts counts in institutions and other places, so:</p> <ul style="list-style-type: none"> Do not count anyone living away either at college or in the Armed Forces. Do not count anyone in a nursing home, jail, prison, detention facility, etc., on April 1, 2010. Leave these people off your form, even if they will return to live here after they leave college, the nursing home, the military, jail, etc. Otherwise, they may be counted twice. <p>The Census must also include people without a permanent place to stay, so:</p> <ul style="list-style-type: none"> If someone who has no permanent place to stay is staying here on April 1, 2010, count that person. Otherwise, he or she may be missed in the census. <p>1. How many people were living or staying in this house, apartment, or mobile home on April 1, 2010? [Question Category: TOTAL POP2, Version: 13]</p> <p>Number of people = [HH_POP_COUNT]</p> <p><input type="checkbox"/> (CSB3, 2)</p> <p>2. Were there any <u>additional</u> people staying here April 1, 2010 that you <u>did not include</u> in Question 1? [Question Category: HH Coverage, Version: 36]</p> <p>Mark <input checked="" type="checkbox"/> all that apply.</p> <p><input type="checkbox"/> Children, such as newborn babies or foster children [HH_COVERAGE_CHILD]</p> <p><input type="checkbox"/> Relatives, such as adult children, cousins, or in-laws [HH_COVERAGE_RELAT]</p> <p><input type="checkbox"/> Nonrelatives, such as roommates or live-in baby sitters [HH_COVERAGE_NONRELI]</p>		<p>Éste es su cuestionario oficial del Censo de los EE.UU. Es fácil, rápido de contestar y sus respuestas están protegidas por ley. Por favor, complete su cuestionario en el idioma que le, sea más cómodo y devuélvalo por correo hoy. [Question Category: INTRO, Version: 3]</p> <p>(No question text) [Question Category: Total Pop, Version: 53]</p> <p>Use un bolígrafo de tinta azul o negra.</p> <p>El Censo tiene que contar a cada persona que vive en los Estados Unidos el 1 de abril de 2010.</p> <p>Antes de contestar la Pregunta 1, cuente a las personas que viven en esta casa, apartamento o casa móvil usando nuestras instrucciones.</p> <ul style="list-style-type: none"> Cuente a todas las personas, incluyendo a bebés, que viven y duermen aquí la mayor parte del tiempo. <p>La Oficina del Censo también lleva a cabo recuentos en instituciones y otros lugares, por lo tanto:</p> <ul style="list-style-type: none"> No cuente a alguien que no vive aquí por estar en la universidad o en las Fuerzas Armadas. No cuente a alguien que está en un hogar de convalecencia, cárcel, prisión, centro de detención, etc., el 1 de abril de 2010. No incluya a estas personas en su cuestionario, aunque vuelvan a vivir aquí después de salir de la universidad, hogar de convalecencia, ejército, cárcel, etc. De otra manera, serán contadas dos veces. <p>El Censo también tiene que incluir a las personas sin un lugar permanente donde quedarse, por lo tanto:</p> <ul style="list-style-type: none"> Si alguien sin un lugar permanente donde quedarse se está quedando aquí el 1 de abril de 2010, cuente a esa persona. De lo contrario, puede que no sea contada en el censo. <p>1. ¿Cuántas personas vivían o se quedaban en esta casa, apartamento o casa móvil el 1 de abril de 2010? [Question Category: TOTAL POP2, Version: 13]</p> <p>Número de personas = [SP-HH_POP_COUNT]</p> <p><input type="checkbox"/> (CSB3, 2)</p> <p>2. ¿Había personas <u>adicionales</u> quedándose aquí el 1 de abril de 2010 que usted <u>no incluyó</u> en la Pregunta 1? [Question Category: HH Coverage, Version: 36]</p> <p>Marque <input checked="" type="checkbox"/> todas las que apliquen.</p>	

Question Group Face and Page on the questionnaire

Javascript Controls

Question Version In this case it contains only instructions, there is no question text

Unique Question Version

Response Field Type and length (ComboBox with a length of 2)

Static Graphic Object (SGO)

Unique Response Field Name It contains response text, response type (checkbox in this case)

IBEAM-Production - Windows Internet Explorer provided by Yahoo!

File Edit Tools Bilingual Validation Reports Planning Preview Rows View Help Notifications UGO Window

Research & Planning Module - PowerSearch - View Results(IBEAMP003-9.3) - LADIN001 (2043357)

Filters
 Show Questions in Questionnaire ---QUESTIONNAIRE--- | Show Questions in 2010 | Questionnaires | Remove Filters

Results 33 Records

Group By: Questionnaire | Response Field

All	Q. Name	Q. Year	Field Name	Field Format	View Criteria
Question Category		Question Text			
<input type="checkbox"/>	ALL_People V.2		Are you filling out this form for ALL of the people who were living or staying at this address on April 1, 2010?		
<input type="checkbox"/>	S	11			
<input type="checkbox"/>	Continue2 V.2		If more people live here, continue with Person 4.		
<input type="checkbox"/>	S	5			
<input type="checkbox"/>	Continue2 V.3		If more people live here, continue with Person 5.		
<input type="checkbox"/>	S	5			
<input type="checkbox"/>	Continue2 V.4		If more people live here, continue with Person 6.		
<input type="checkbox"/>	S	5			
<input type="checkbox"/>	Continue2 V.11		If more people live here, continue with Person 3.		
<input type="checkbox"/>	S	3			

Selected Question Details Preview

ALL_People V.2

Content | Where it's Used | Is The Same As

Are you filling out this form for ALL of the people who were living or staying at this address on April 1, 2010?

Yes
R [RESP_YES]

No
R [RESP_NO]

Workspace: Add questions to selected Workspace

Print Questions | Close PowerSearch | Return to Search Criteria

Record: 1/? | ... | <OSC>

Filters Show Questions in Questionnaire ---QUESTIONNAIRE--- Show Questions in 2010 Questionnaires Remove Filters

Results Group By 33 Records

Questionnaire		Response Field	
All	Q. Name	Q. Year	Field Name
			Field Format
			View Criteria
Question Category	Question Text		
HH Coverage V.33	Were there any <U>additional</U> people staying here April 1, 2010 that you <U>did not include</U> in Question 1?		
S 51			
HH Coverage V.36	Were there any <U>additional</U> people staying here April 1, 2010 that you <U>did not include</U> in Question 1?		
S 2			
HH Coverage V.37	Were there any <U>additional</U> people staying here April 1, 2010 that you <U>did not include</U> in Question 1?		
S 2			
HH Coverage V.41	Were there any <U>additional</U> people staying here November 1, 2008 that you <U>did not include</U> in Question 1?		
6			
INSTRUCTIONTURN PG V.3	&ArrowRight460; If more people live here, turn the page and continue.		
S 3			

Selected Question Details

HH Coverage V.36 [Preview](#)

Content Where it's Used Is The Same As

- Question: HH Coverage V.29 Language: ENGLISH
- Question: HH Coverage V.32 Language: ENGLISH
 - Questionnaire: DX-1 V.2
 - Group: MOMB-HH
- Question: HH Coverage V.33 Language: ENGLISH
- Question: HH Coverage V.33 Language: SPANISH
- Question: HH Coverage V.35 Language: ENGLISH
- Question: HH Coverage V.37 Language: ENGLISH
 - Questionnaire: D-1PR(S) V.1
 - Group: MOMB-HH
 - Questionnaire: D-1(UL)PR(S) V.1

Workspace: Add questions to selected Workspace Print Questions Close PowerSearch Return to Search Criteria

IBEAM-Production - Windows Internet Explorer provided by Yahoo!

File Edit Tools Bilingual Validation Reports Planning Preview Rows View Help Notifications UGO Window

Research & Planning Module - PowerSearch - View Results(IBEAMP003-9.3) - LADIN001 (2043357)

Filters
 Show Questions in Questionnaire ---QUESTIONNAIRE--- | Show Questions in 2010 | Questionnaires | Remove Filters

Results 33 Records

Group By: Questionnaire, Response Field

All	Q. Name	Q. Year	Field Name	Field Format	View Criteria
Question Category					
Question Text					
<input type="checkbox"/>	HH Coverage V.33				
<input type="checkbox"/>	Were there any <U>additional</U> people staying here April 1, 2010 that you <U>did not include</U> in Question 1?				
<input type="checkbox"/>	HH Coverage V.36				
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<input type="checkbox"/>	HH Coverage V.41				
<input type="checkbox"/>	Were there any <U>additional</U> people staying here November 1, 2008 that you <U>did not include</U> in Question 1?				
<input type="checkbox"/>	INSTRUCTIONTURN PG V.3				
<input type="checkbox"/>	&ArrowRight460; If more people live here, turn the page and continue.				

Selected Question Details HH Coverage V.36 [Preview](#)

Content | **Where it's Used** | **Is The Same As**

- Year: 2010
 - Questionnaire: D-1(S) V.1
 - Group: MOMB-HH (HH)
 - Question: HH Coverage V.36
 - Questionnaire: D-1(ES) V.1
 - Group: MOMB-HH (HH)
 - Question: HH Coverage V.36

Workspace: [Add questions to selected Workspace](#)

[Print Questions](#) [Close PowerSearch](#) [Return to Search Criteria](#)

Record: 1/1 <OSC>

IBEAM-Production - Windows Internet Explorer provided by Yahoo!

File Edit Tools Bilingual Validation Reports Planning Preview Rows View Help Notifications UGO Window

Research & Planning Module - PowerSearch - View Results(IBEAMP003-9.3) - LADIN001 (2043357)

Filters
 Show Questions in Questionnaire ---QUESTIONNAIRE--- | Show Questions in 2010 | Questionnaires | Remove Filters

Results 33 Records

Group By: Questionnaire | Response Field

View Criteria: All | Q. Name | Q. Year | Field Name | Field Format | View Criteria

- [-] Questionnaire: 1UL V.1 (1 Questions)
- [-] Questionnaire: D-1 V.1 (3 Questions)
 - [-] Group: MOMB-HH
 - [-] Group: MOMB-HH
 - [-] Question: TOTAL POP2 V.9 "How many people were living or staying in this house, apartm
 - [-] Question: HH Coverage V.33 "Were there any <U>additional</U> people staying here Apr
 - [-] Group: MOMB-P6
- [-] Questionnaire: D-1(C) V.1 (3 Questions)
- [-] Questionnaire: D-1(CF) V.1 (3 Questions)
- [-] Questionnaire: D-1(E) V.1 (4 Questions)
- [-] Questionnaire: D-1(E)(R)PR(S) V.1 (4 Questions)
- [-] Questionnaire: D-1(E)(SUPP)PR(S) V.1 (1 Questions)
- [-] Questionnaire: D-1(E)(X1) V.1 (4 Questions)
- [-] Questionnaire: D-1(E)(X2) V.1 (4 Questions)
- [-] Questionnaire: D-1(E)PR V.1 (4 Questions)

Selected Question Details Preview

TOTAL POP2 V.9

Content | Where it's Used | Is The Same As

- [-] Year: 2010
 - [-] Questionnaire: D-1(UL) V.1
 - [-] Questionnaire: D-1(C) V.1
 - [-] Group: MOMB-HH (HH)
 - [-] Question: TOTAL POP2 V.9
 - [-] Questionnaire: PATD-1(X10) V.1
 - [-] Questionnaire: D-1(X8) V.1
 - [-] Questionnaire: SB-CPEX-TEMP V.1
 - [-] Questionnaire: D-1(XB) V.1
 - [-] Questionnaire: D-1(X4) V.1
 - [-] Questionnaire: DY-1(X13) V.1
 - [-] Questionnaire: D-1(K) V.1
 - [-] Questionnaire: DY-1(X) V.1
 - [-] Questionnaire: PATD-1(XB) V.1
 - [-] Questionnaire: DY-1(X17) V.1
 - [-] Questionnaire: PATD-1(X13) V.1

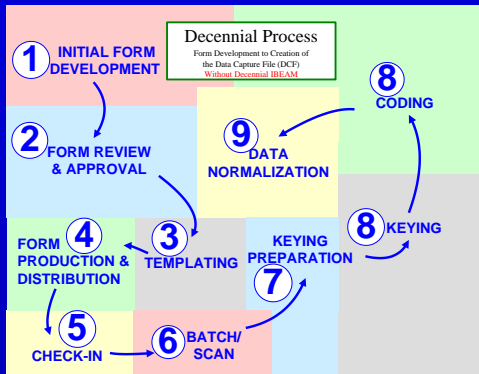
Workspace: Add questions to selected Workspace

Print Questions | Close PowerSearch | Return to Search Criteria

Record: 1/1 | <OSC>

Agenda Topic: Innovative Approach

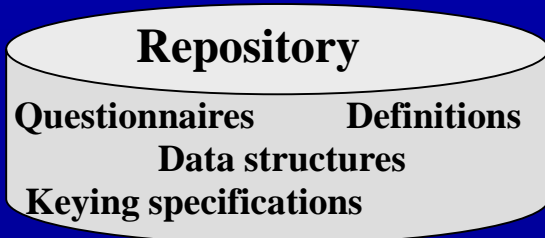
The IBEAM approach implements a 3-Dimensional strategy:



Dimension 1: Well-developed business Processes



Dimension 2: Innovative Business-focused Solution to support processes

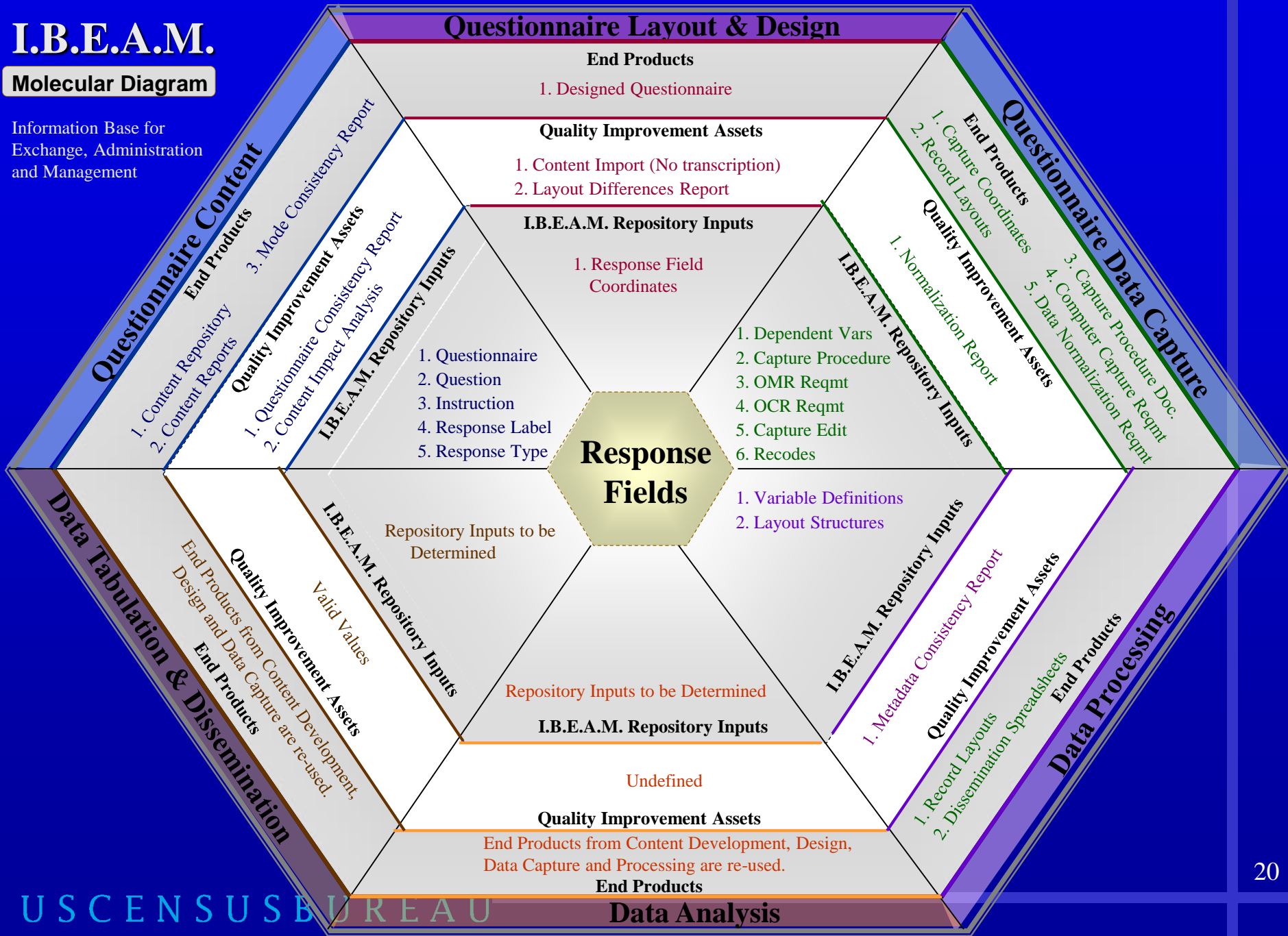


Dimension 3: Well-structured Repository

I.B.E.A.M.

Molecular Diagram

Information Base for Exchange, Administration and Management



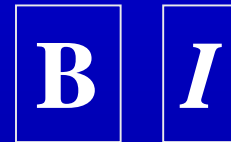
Innovative Approach - continued

Introduction of a COTS Solution

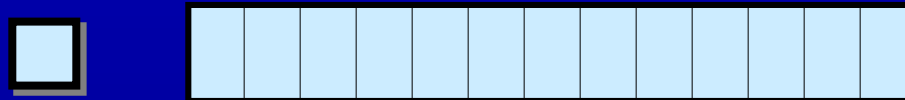
OneForm Designer Plus © by Amgraf, Inc. incorporated an XML interface to facilitate content exchange with the IBEAM system.

Later efficiencies

Content attributes (e.g., bold, italic)



Capture fields (e.g., checkboxes, segmented boxes)



Graphic objects (e.g., arrows, shapes)



Innovative Approach - continued

“Get my Work done – Get Metadata for free”

All system development was focused on allowing users to accomplish business goals.

Metadata repository was transparent.

Unconventional Approach

Occasionally, functionality was omitted until users determined it was needed.

Innovative Approach - continued

Additionally...

Make Resource Development a Priority

Competence and trust critical to effectiveness

**Focus on System Reliability & Alignment
with Business Goals – Not Metadata**

Make sure technical mistakes did not undermine the effort

Assume Other Responsibilities as needed

Issues could be attributed to IBEAM.

Innovative Approach - continued

Business First

& last

**Everything begins and ends
with the **Business** needs**

Agenda Topic: Future Plans

1. Debrief and re-factor system
2. Increase Breadth (more lifecycle traction)
3. Increase Depth (even more functionality)
4. Address other modes
5. Incorporate new technologies as appropriate

Remember:

“Get my work done... get my metadata for free.”

Questions?



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