
Facing the Multimode Challenge Head On:

Best Practices for Tracking and Linking Dynamically Changing Relationships

March 24, 2011

Presentation to FedCASIC
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MATHEMATICA
Policy Research

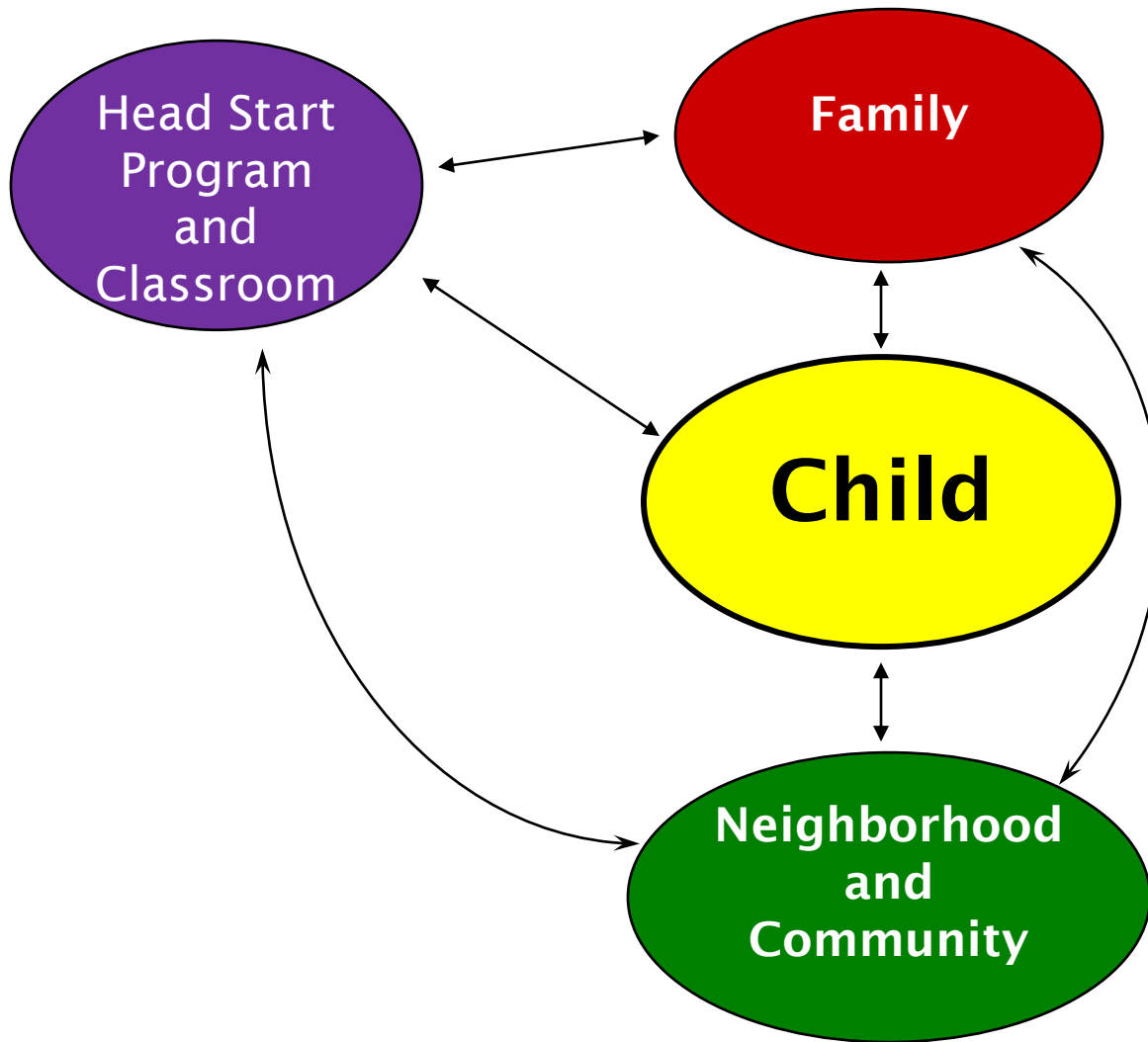
Introduction

- **Family and Child Experiences Survey (FACES)**
- **Tracking Sample Members**
- **The Survey Management System**

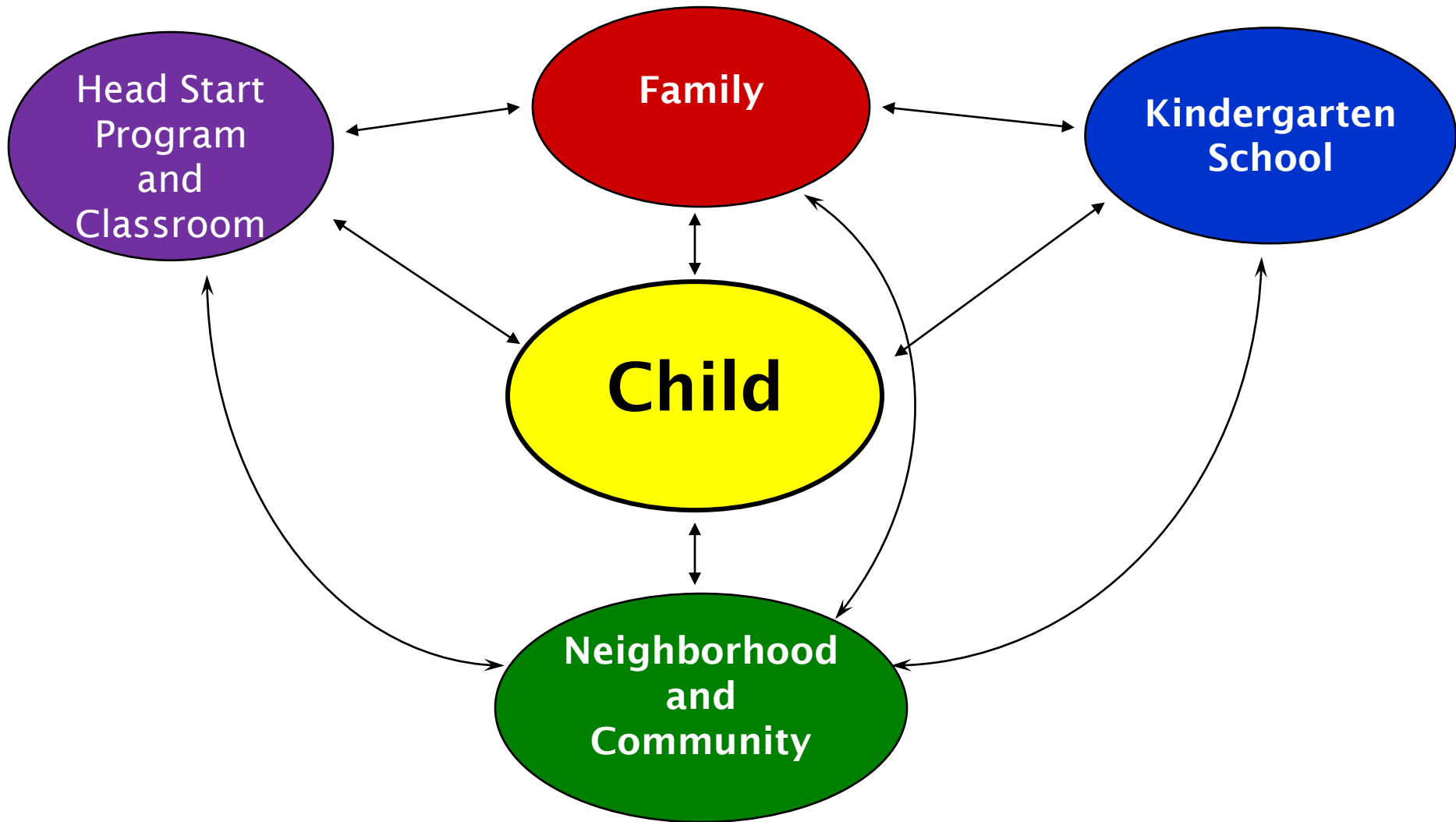
Components of a Dynamic Tracking System

- **Allows for Changing Status Codes**
- **Tracking and Linking Entities (child, parent, school)**
 - Within waves
 - Between waves
- **Produce Reports**
 - Monitor status codes
 - Track entity relationship changes
 - Prepare sample for next round

The Family and Child Experiences Survey



The Family and Child Experiences Survey



FACES Data Collection Components

		Fall 2009	Spring 2010	Spring 2011	Spring 2012
Instrument	Mode	Child in Head Start		Child in Head Start or Kindergarten	Child in Kindergarten
Assessment	CAPI @ center (HS) or @ child's home (K)	X	X	X	X
Parent Interview	CAPI (Fall 09), CATI	X	X	X	X
HS Teacher Child Rating	Web or Paper	X	X	X	
HS Teacher Interview	CAPI	X	X	X	
HS Classroom Observation	Paper		X	X	
K Teacher Survey	Web or Paper			X	X
K Teacher Child Rating	Web or Paper			X	X

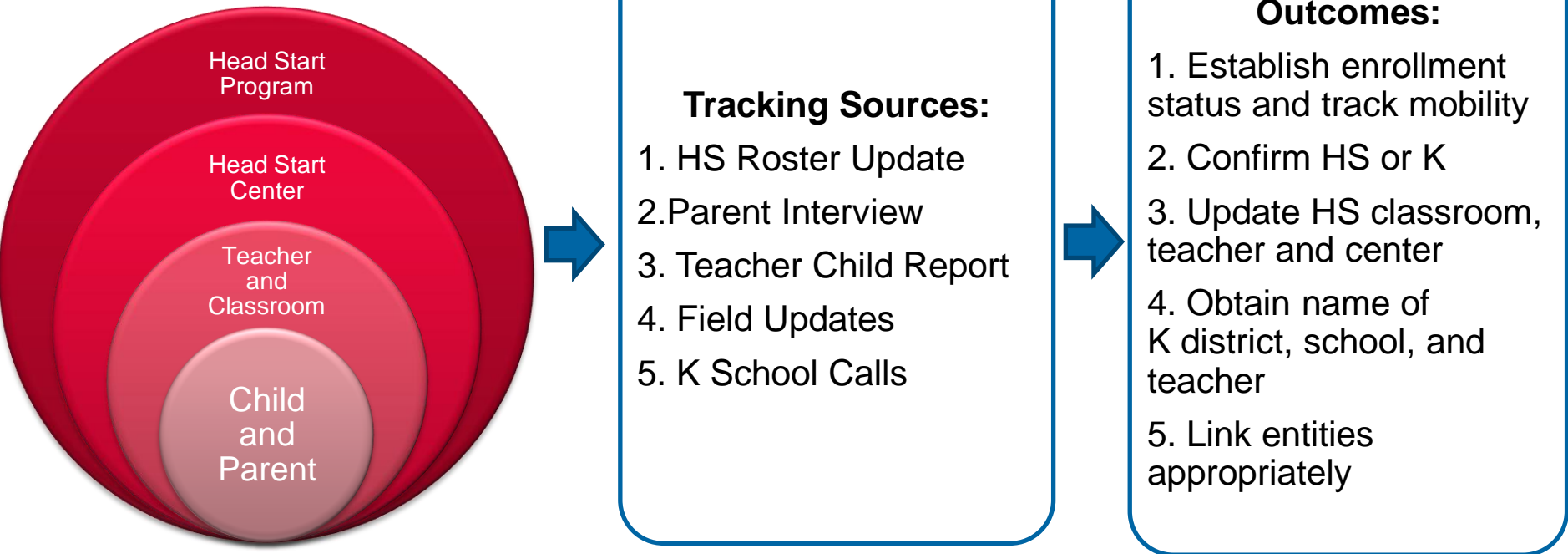
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HS Teacher Child Rating	Web or Paper	X	X	X	
HS Teacher Interview	CAPI	X	X	X	
HS Classroom Observation	Paper		X	X	
K Teacher Survey	Web or Paper			X	X
K Teacher Child Rating	Web or Paper			X	X

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HS Teacher Child Rating	Web or Paper	X	X	X	
HS Teacher Interview	CAPI	X	X	X	
HS Classroom Observation	Paper		X	X	
K Teacher Survey	Web or Paper			X	X
K Teacher Child Rating	Web or Paper			X	X

Sample Tracking



Sample Tracking

Spring 2010

Outcomes:

1. Establish enrollment status and track mobility
2. Confirm HS or K
3. Update HS classroom, teacher, and center
4. Obtain K district, school, and teacher name
5. Link entities appropriately

Ineligible

In Preschool or Pre-K

Not in School

In Kindergarten

In non-selected HS center or program

Not in HS, whereabouts unknown

No changes

New Class Session

Same Teacher

Same Center

Same HS Program

New Class

New Teacher

Same Center

Same HS Program

New Class

New Teacher

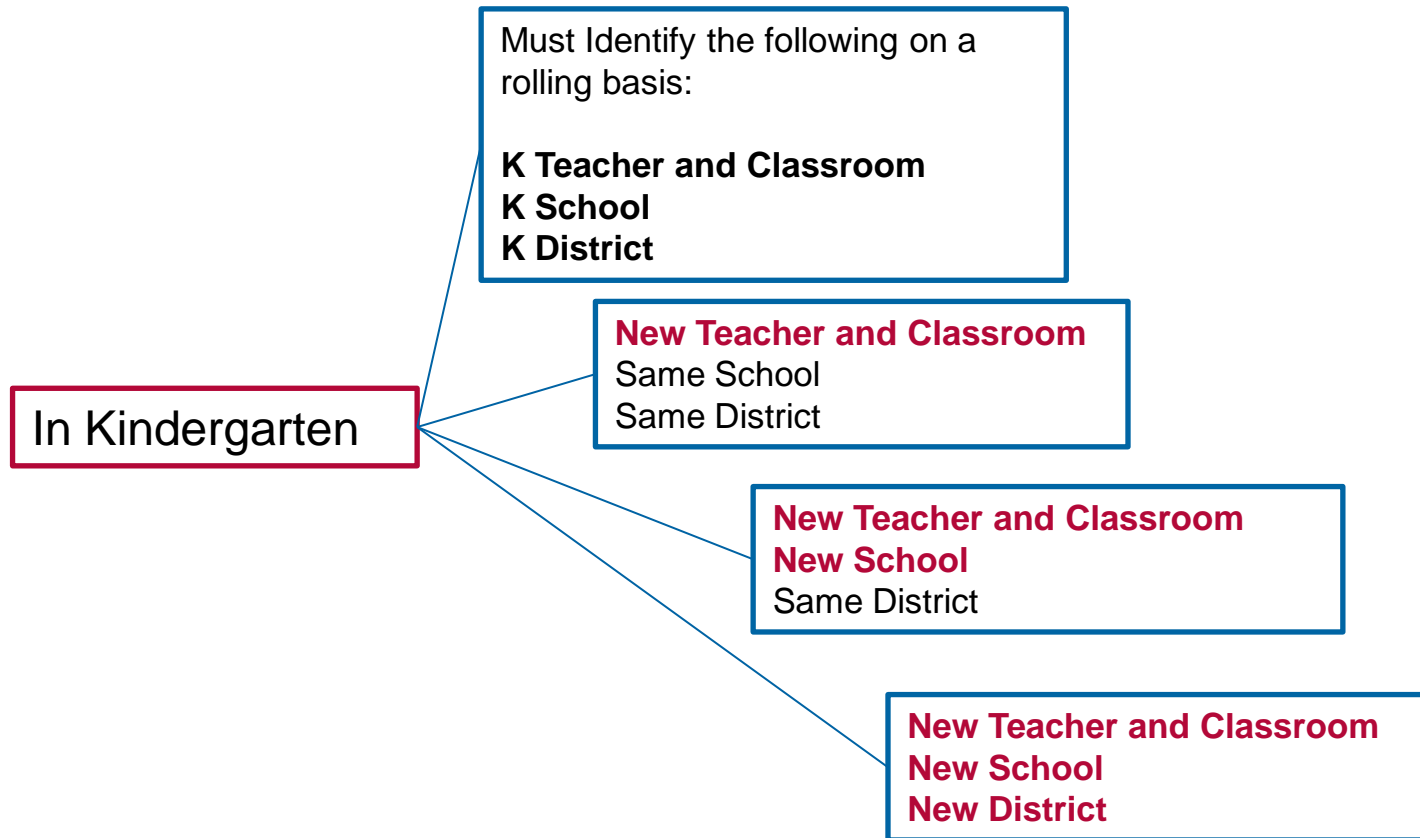
New Center

Same HS Program

In Head Start

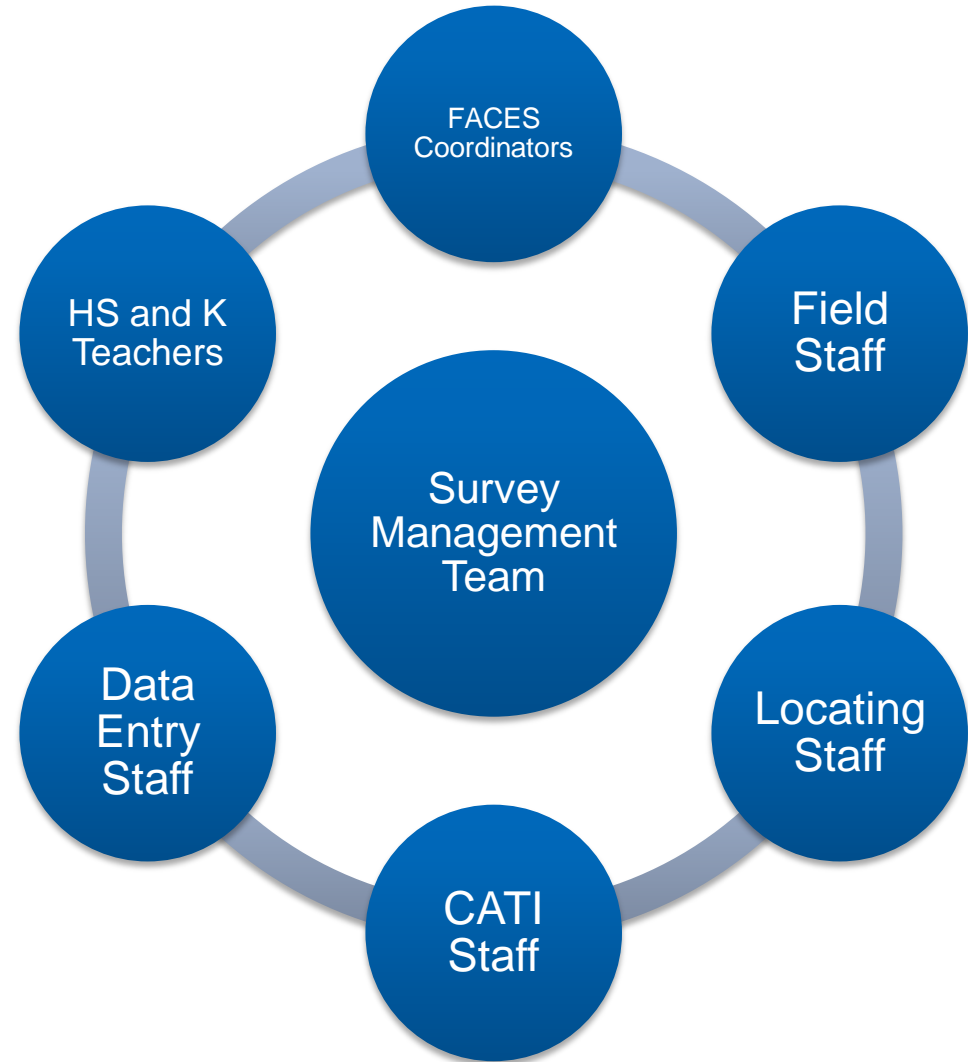
Sample Tracking

Spring 2011



Needs

- **Staff access**
- **Quick updates**
- **Flexible and dynamic**



The Survey Management System (SMS)

- **Controls sample releases**
 - Load files for multiple entities
 - Field management documents
 - Enables survey staff to assign cases to interviewers
- **Manages changing relationships among entities**
 - Manages case status of all data collection instruments throughout field period
 - Identifies and alerts survey staff to potential changes
 - Designed to facilitate updates to multiple-entity relationships

The Survey Management System (cont.)

- **Manages respondent payments for parents and teachers**
- **Extensive reporting capabilities**
 - Report library includes detailed daily status reports, rosters, locating, field interviewer productivity
 - Used by project staff from survey director to field managers to monitor progress

Reports for Tracking Progress

FACES 2009 Summary Report Spring 2011

	sample release		ineligible		Child			Parent Interview				Teacher Child Rating						
	3	4	13	26	N	%	% of elig	N	%	CATI		Web		Hard Copy		N	%	
										eligible sample	N	%	N	%	N			%
Cmnty Svcs	3	39	13	26	25	88.0	96.2	17	65.4	17	65.4	0	25	96.2	0	25	96.2	
	4	29	5	24	19	88.0	79.2	18	75.0	18	75.0	0	0	0	0	0		
Human Svcs	3	18	3	15	13	58.1	86.7	10	66.7	10	66.7	0	15	100.0	0	15	100.0	
	4	38	10	28	12	58.1	42.9	13	46.4	13	46.4	0	2	7.1	0	2	7.1	
Children's Svcs	3	29	11	18	18	84.8	100.0	14	77.8	14	77.8	0	16	88.9	2	11.1	28	100.0
	4	19	4	15	10	84.8	66.7	11	73.3	11	73.3	0	2	13.3	0	2	13.3	
Cmnty Svcs	3	39	18	21	21	90.2	100.0	16	76.2	16	76.2	0	10	47.6	0	10	47.6	
	4	21	1	20	16	90.2	80.0	16	80.0	16	80.0	0	4	20.0	0	4	20.0	
Human Svcs	3	49	33	16	16	91.2	100.0	8	50.0	8	50.0	0	15	93.8	0	15	93.8	
	4	18	0	18	15	91.2	83.3	14	77.8	14	77.8	0	0	0	0	0		
Children's Svcs	3	28	18	10	9	86.4	90.0	8	80.0	8	80.0	0	0	0	0	0		
	4	14	2	12	10	86.4	83.3	9	75.0	9	75.0	0	1	8.3	0	1	8.3	
Human Svcs	3	43	16	27	26	78.4	96.3	14	51.9	14	51.9	0	24	88.9	0	24	88.9	
	4	11	1	10	3	78.4	30.0	4	40.0	4	40.0	0	2	20.0	0	2	20.0	
3/7/2011		395	135	260	213	81.9	81.9	172	66.2	172	66.2	0	116	44.6	2	0.8	118	45.4

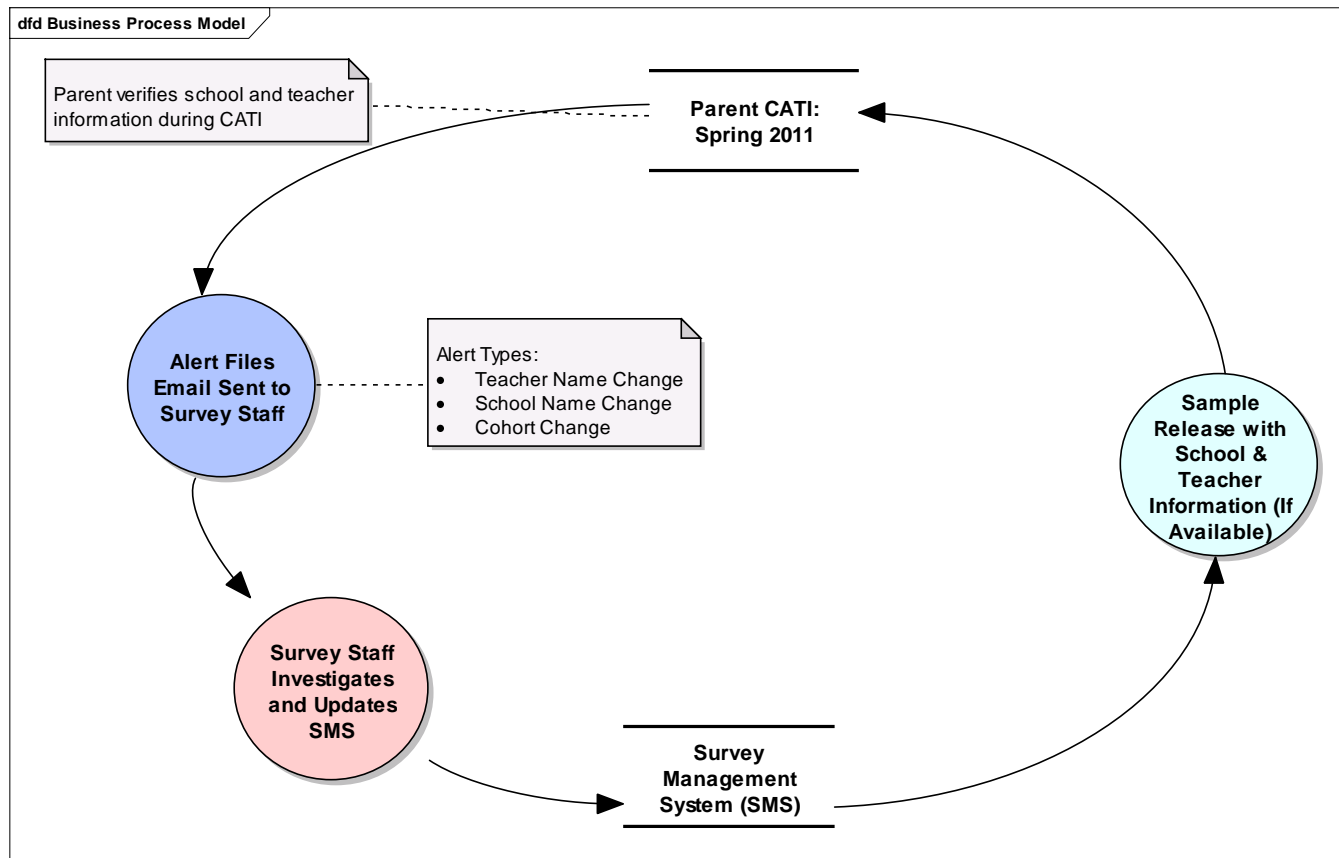
Reports for Tracking Progress

FACES 2009 Child Instruments Detailed Spring 2011

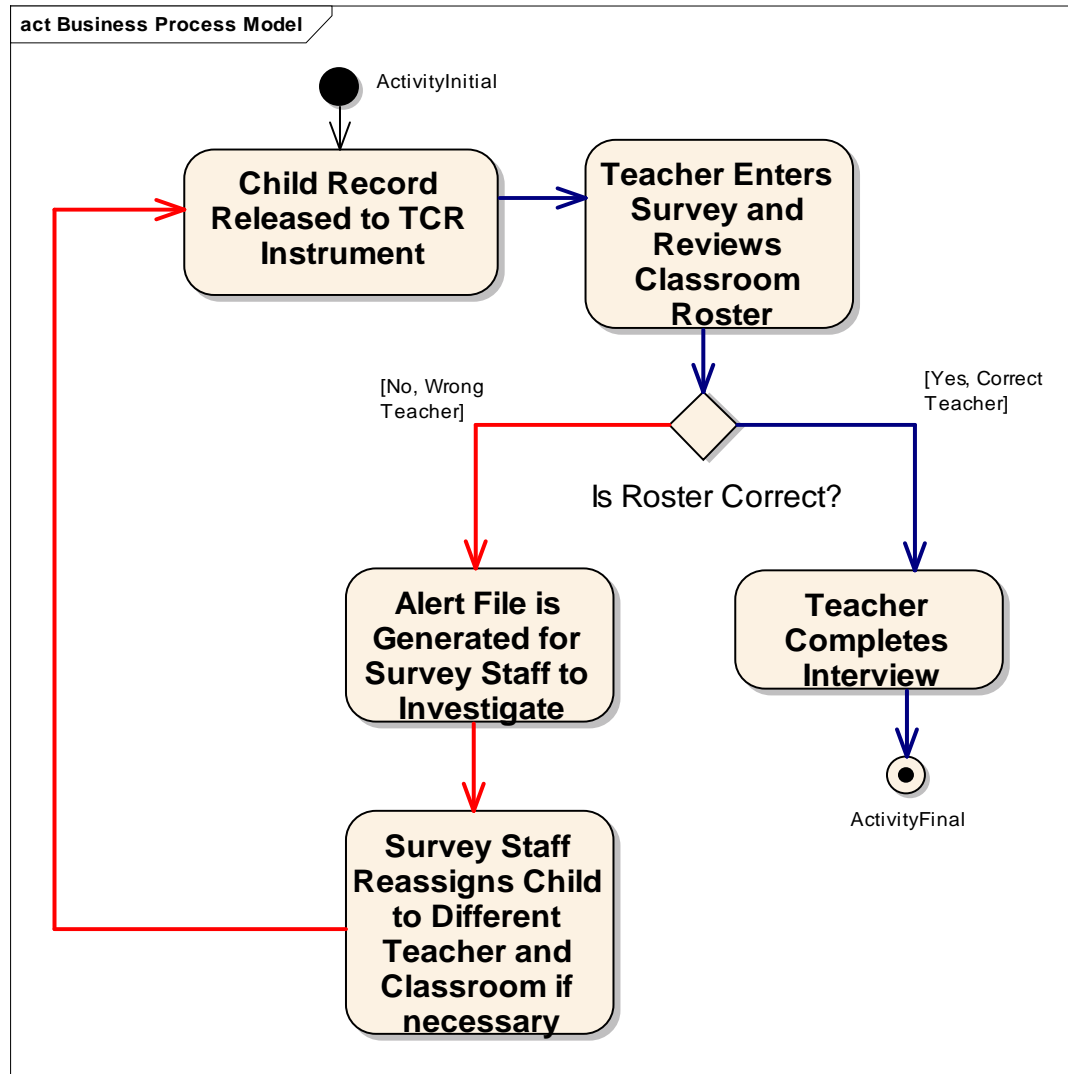
Week of: 3/21/11

ID	Name	Grade	Cohort	Child Assessment			Parent Interview		Teacher Child Report	
				Sample Size	Complete		Complete		Complete	
					N	%	N	%	N	%
Development, Inc.				42	0	0.0	19	45.2	0.00	0.0
				5	0	0.0	0	0.0	0	0.0
				5	0	0.0	0	0.0	0	0.0
1015419	Jose	K	4	530			530		510	
1015421	Brayan	K	4	530			530		000	
1015397	Patrick	K	4	000			000		510	
1015256	Aleily	K	4	510			510		000	
1015416	Nelson	K	4	000			000		000	

Tracking Child Mobility Through Parent Survey



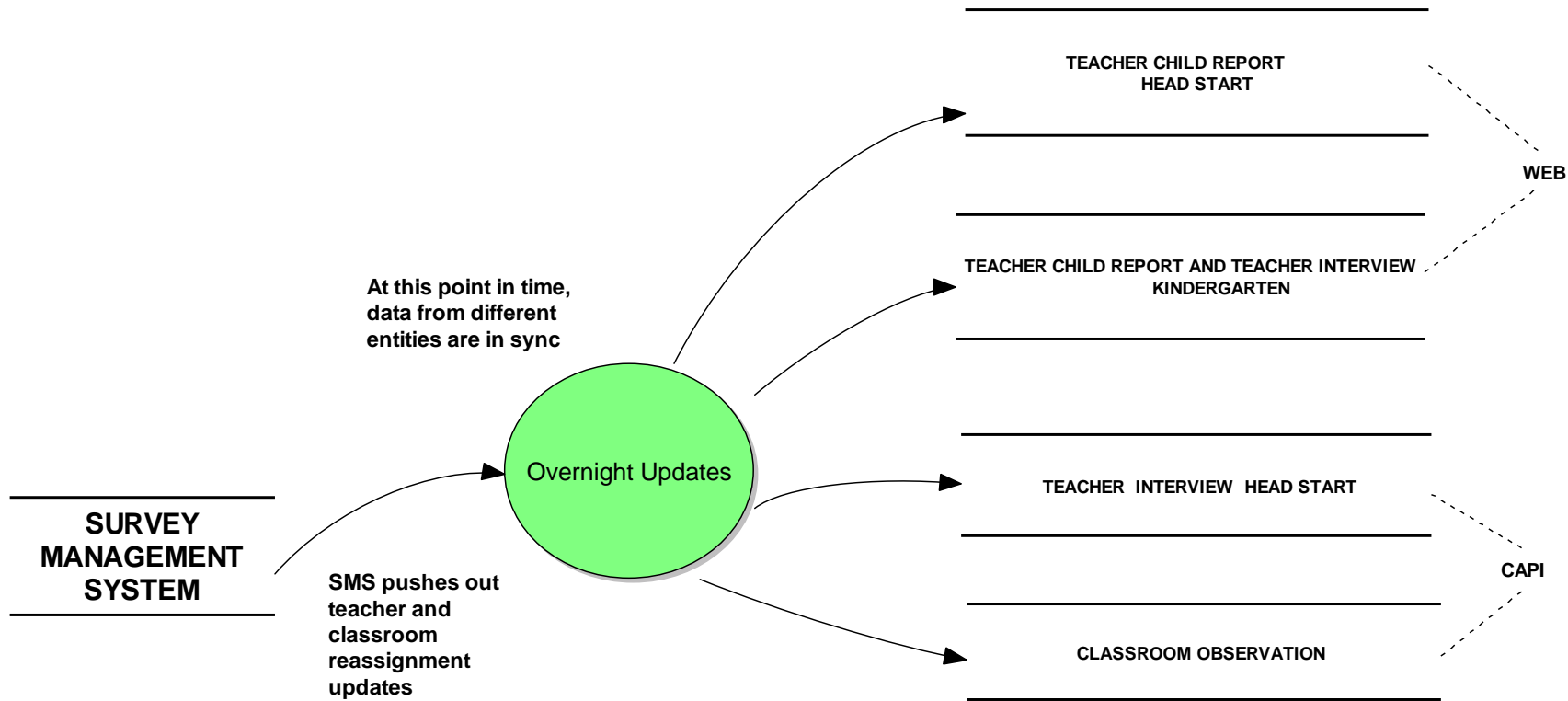
Tracking Child Mobility Through TCR Interview



The Multimode Challenge

Expedited Reassignment of Relationships

analysis Multi Mode Challenge



SMS Role After Data Collection Ends

- **Final status resolution among entities for each child**
- **Status code reconciliation to verify delivery of all relevant data**
- **Updated information serves as the starting point for next round of data collection**

Conclusion

- **System Design Benefits**
 - Quick resolution of data issues
 - Increased efficiencies and reduced field costs
 - Better data management from start to finish

For More Information

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