AIRA 2017 – Chicago, IL

IIS and VFC working together to Effectively Lean Engineer Enrollment
April 12, 2017

Driving Daily Business Processes

Kansas Immunization Program



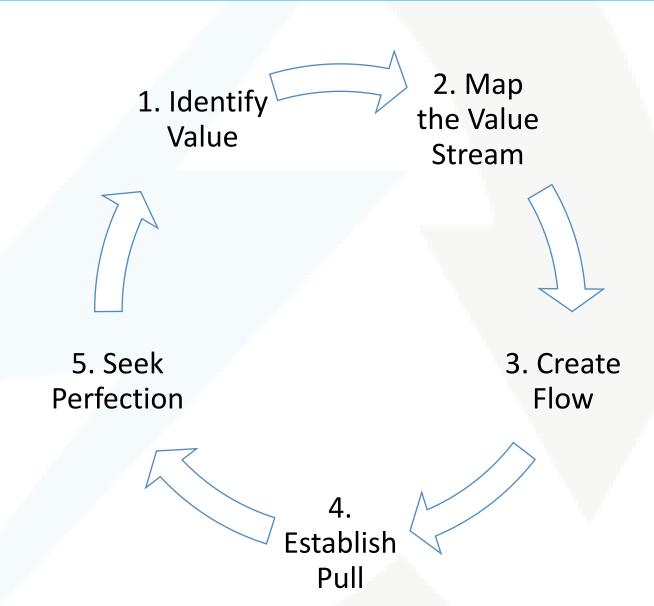
What is the Goal of Lean Engineering?

The goal of lean is to eliminate waste—the non-value-added components in any process.



Lean Engineering: 5 Key Principals

The Five Step Process for guiding the implementation of lean techniques, according to the Lean Enterprise Institute.





Lean Engineering: 5 Key Principles

Defining 5 Key Principles						
Identify Value Value is defined as the end goal.						
Map the Value Stream	Identifying all components and tasks in the process, then eliminating waste.					
	Waste = any task or component in the process which adds unnecessary time or cost to achieving the end goal					
Create Flow After waste is removed from the value stream, ensure the remaining steps flow smoothly with no interruptions, delays, or bottlenecks.						
Establish Pull Make it easy for the customer to pull the product as needed.						
Seek Perfection Constantly review processes for improvements.						



Lean Engineering: 5 Key Principles

	5 Key Pri	5 Key Principals applied to Kansas' Annual VFC Enrollment			
	Identify Value	FASTER Annual VFC Enrollment			
	Map the Value Stream	Waste = All unnecessary tasks associated with Paper-laden processes			
	Create Flow	 Increase Visibility Add Integrated Workflows – Enrolling Provider becomes part of the process Enforce Conformance of data and process Add activity logging, which requires no manual data entry 			
Establish Pull Leverage existing system to support Online Enrollment and Approval Process.					
Ž, į	Seek Perfection	Constantly review processes for improvements.			

KIP Regional VFC Support

386 Providers • 105 Counties • 6 Support Regions • 4 VFC Nurses

2014 VFC Enrollment Stats

Start to Finish: 246 Days (8.2 Months)

- 30 days to Print and Package Forms and Booklets
- 10 for Certified Mail Delivery
- 206 Days to receive and approve enrollments



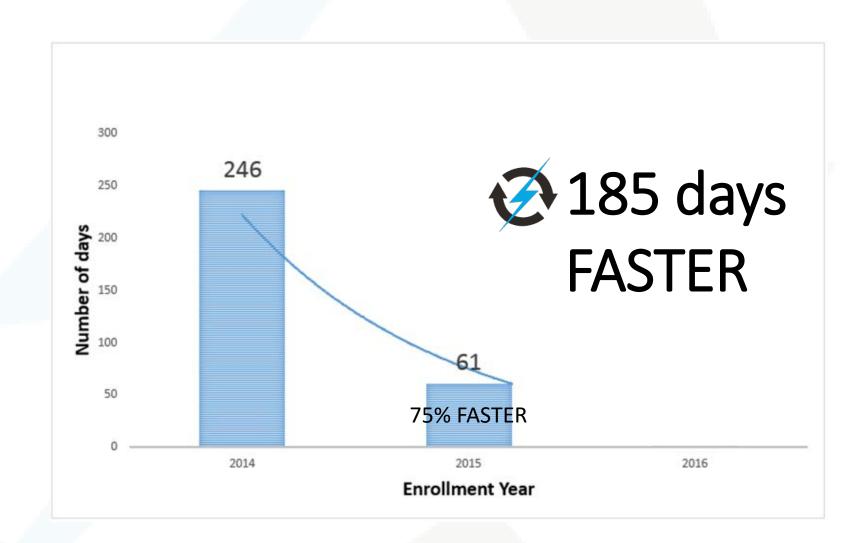


VFC Enrollment Results 2015

2015: Year 1 Results

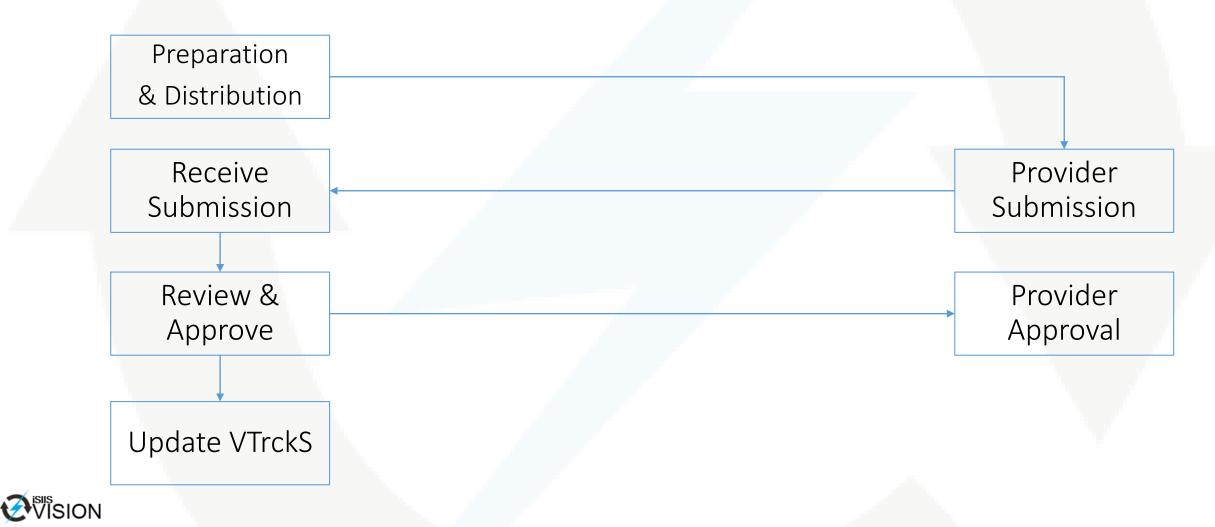
 Start to Finish: 185 Days faster than 2014

- VFC program gains 185 days (over 6 months) to focus on
 - Provider Education
 - Site Visits
 - Compliance Issues
 - Follow Up





Kansas' High-Level VFC Re-Enrollment Process



Preparation & Distribution: Identifying Waste

Value in This Phase – Get the right information and VFC Forms to Provider

Associated Tasks Has Value Waste

- Identify VFC Form Updates
- Make Updates
- Print forms and booklets
- Package forms and booklets
- Print mailing labels
- Apply mailing labels
- Mail (certified) to all providers
- WAIT



Preparation & Distribution: Understanding Value vs. Waste

Value in This Phase – Get the right information and VFC Forms to Provider

	Has Value	Waste	Understanding
Prep	Identify VFC Form UpdatesMake Updates		Necessary tasks to ensure compliance with CDC and state guidelines
Distribution		 Print out forms and booklets Package all forms and booklets Print out mailing labels Apply mailing labels Mail (certified) to all providers 	 Had value in the past No longer necessary with modern technology. Wasted time and money. However, still need to get packets in the hands of the provider. Need a better Distribution method.
Abyss		• WAIT	 After mailing, no visibility into provider actions. Want VISIBILITY.

Lean Engineering: Creating Flow

Preparation & Distribution: Online Enrollment

Eliminates Waste

- Paper
- Fax and Mail

Should Reduce Time by 40 days

- 30 days to Print and Package Forms and Booklets
- 10 for Certified Mail Delivery



Proactively Kicks off Process and Workflow



It is Time to Complete VFC Enrollment

2015 VFC Enrollment is Due on or before 03/01/2015

VFC Enrollment is now online. There are 4 steps that must be completed.

Step 1. Clinic and Contacts

Step 2. VFC Provider Profile

Step 3. Immunization Profile

Step 4. Prescribing Providers

After entering all required information for each step, you will need to PRINT and Submit a signed copy of the 2015 VFC Provider Agreement. Click the Start VFC Enrollment option below to get started.

Go to Main page

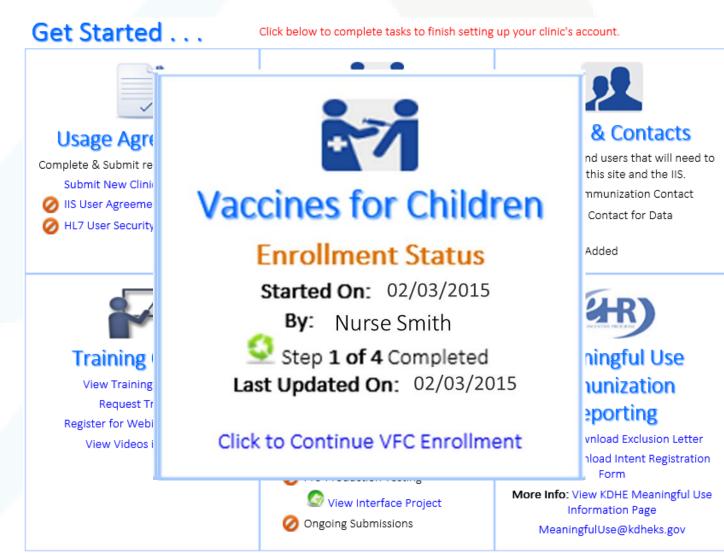
Start VFC Enrollment



Lean Engineering: Establish Pull

Preparation & Distribution: Instant Access to Enrollment

- Broadcast Email Prompts
 Enrollment
- Provider can access Enrollment at any time
- Completion Status Displayed
- Can Save and Return





Lean Engineering: Creating Flow

VFC Enrollment Status Dashboard

- Populated based User's Regional Assignment
- Complete visibility of enrollment activity and status
- Quick Access to Enrolling Provider's Profile
- Shows who is in queue and where action is needed

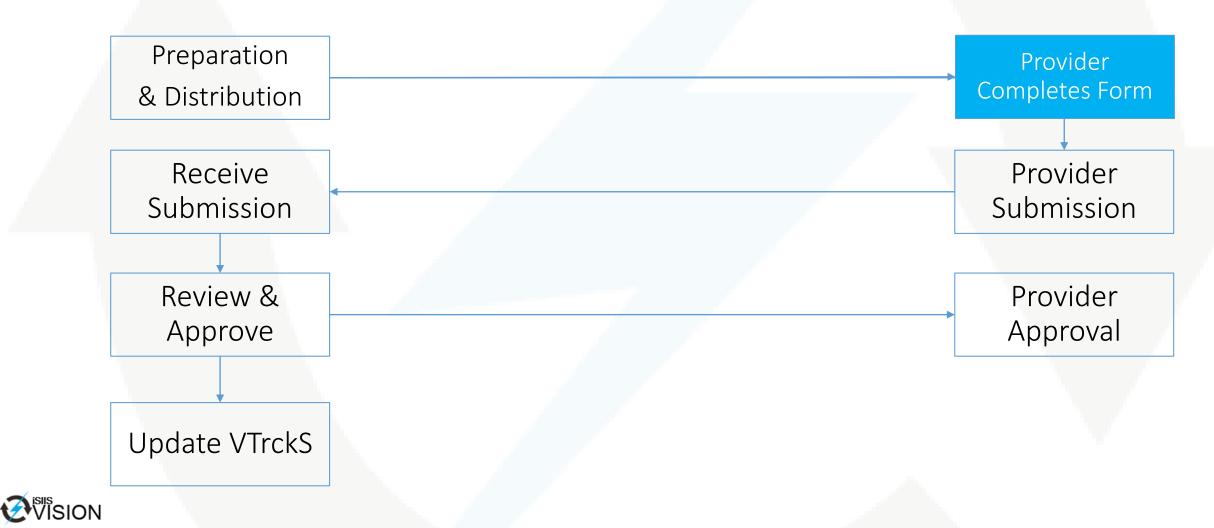
Enrolling Provider Becomes Part of the Process

County	VFC PIN	Provider Site	Contact Name	<u>Status</u>	Submitted Forms	Enrollment Type
LABETTE	6264	<u>Dixit Pediatric Clinic</u>	Nurse Smith	A Pending Approval	✓	Re-Enrollment
ELLIS	0026	Ellis Co Health Dept	Manager Smith	Completed	✓	Re-Enrollment
SEDGWICK	6362	Redwood Family Practice	Dr. Joe	A Pending Approval	✓	Re-Enrollment
SEDGWICK	6488	GraceMed - Virginia and George Ablah Family Clinic	Manager Smith	✓ Completed	✓	Re-Enrollment
THOMAS	2065	<u>Citizens Medical Center</u>	Nurse Test	Step 3 of 4 Completed Forms Not Submitted	0	New Enrollment
ALLEN	6448	Community Health Center of SEK-Iola	Manager Doe	Disapproved	✓	Re-Enrollment
RILEY	6064	Pediatric Associates of Manhattan, P.A.	Jon Doe	Step 3 of 4 Completed Forms Not Submitted	0	Re-Enrollment
WYANDOTTE	1013	Turner House Children's Clinic	Nurse Doe	A Pending Approval	~	Re-Enrollment



Lean Engineering: Create Flow

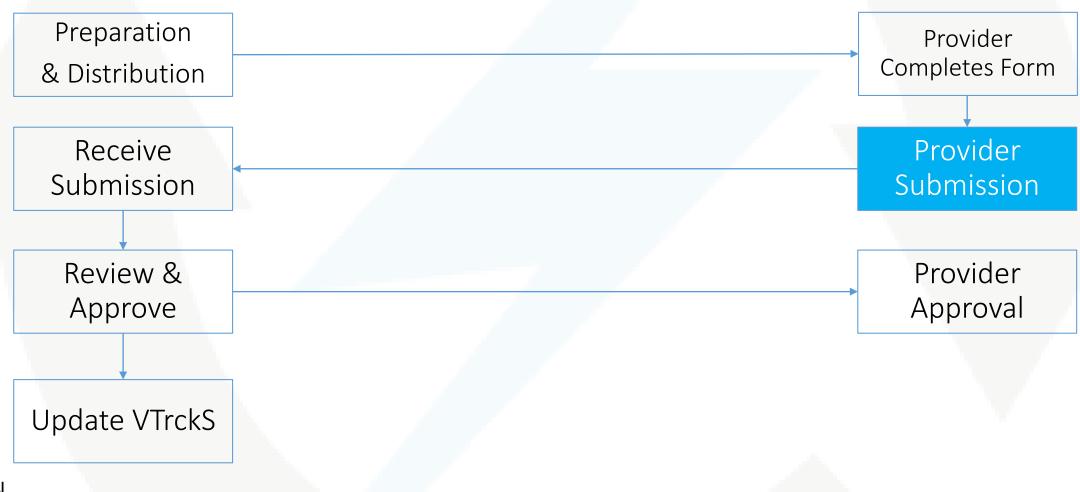
Kansas' High-Level VFC Re-Enrollment Process



Lean Engineering: Create Flow – Challenges

Past Challenges	Improved	Solution
Incomplete Form – Missing Information	~	Step by Step Sequential Process - Enforced completing the entire form
Portions of Form Missing	Y	Online submission inherently solves the issue
Incorrect Areas of Form Completed	~	Only presenting parts of the form the provider is required to complete - based on VFC Provider type
Missing Signature		Kansas required a wet signature in 2015 – No low cost solution presented itself
Missing Training Certificates	~	 Provided method to upload Training Certificates Provided method to request Training Certificates
Missing NPI or Medicaid ID or Med License #		
Invalid NPI or Medicaid ID or Med License #	~	Added edit checks to ensure proper format adherence

Kansas' High-Level VFC Re-Enrollment Process





Provider Submission: Identifying Waste

Value in This Phase – Provider Completes and Submits VFC Enrollment Form

Associated Tasks Has Value Waste

Provider Completes Form

Provider Signs Form

Provider Submits Form

Provider Faxes Form

OR Provider Mails Form

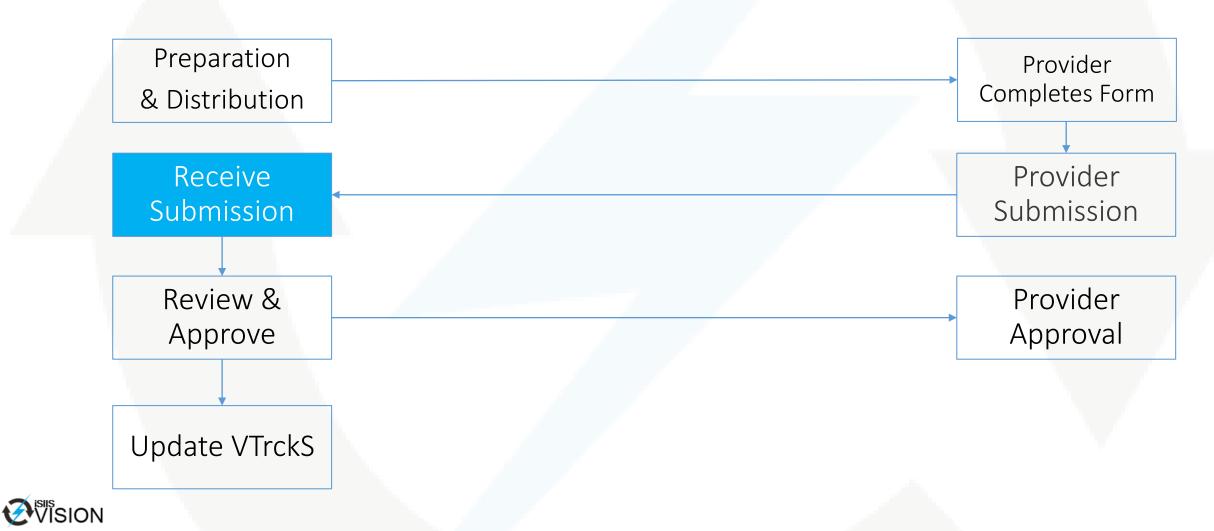


Provider Submission: Understanding Value vs. Waste

Value in This Phase – Getting Completed VFC Enrollment form from Provider

	Has Value	Waste	Understanding		
Complete	Provider Completes Form		 All areas of the form must be completed VFC Profile Benchmarking Shipping Information Prescribing Physicians (Medical Director) Primary & Back Up Coordinators 		
Sign	Provider Signs Completed Form		Signature is Mandatory		
Submit	Provider Submits Form And Coordinators Training Certificates	Faxes Form Mails Form	 Provider Must Submit Form & Certificates Faxes are random and inefficient Mail is inefficient 		

Kansas' High-Level VFC Re-Enrollment Process



Receive Submission: Identifying Waste

Value in This Phase – Immunization Program Receives VFC Enrollment From

Associated Tasks Has Value Waste

Form Received

Certificates Received

- by Fax or Mail

Staff Records Receipt in Excel

Staff Scans all documents

Staff Saves Copy on Shared Drive

Staff Files Paper copy in cabinet

Staff Notifies Region VFC Nurse



Receive Submission: Understanding Value vs. Waste

Value in This Phase – Get the right information and VFC Forms to Provider

	Has Value	Waste	Understanding
Receipt	Form Received Certificates Received	- by Fax or Mail	 VFC Program must receive documents Faxes are random and inefficient Mail is inefficient
Triage		Staff Records Receipt in Excel Staff Scans all documents Staff Saves Copy on Shared Drive Staff Files Paper copy in cabinet	 Non-relational, used when not better method exists Fax/Mail replaced with digital upload. Wasted time and money. However, still need have documents centrally stored for ubiquitous access. Need a better Triage method.
Route		Staff Notifies Region VFC Nurse	After mailing, no visibility into provider actions. Want VISIBILITY.

Lean Engineering: Creating Flow

VFC Enrollment Status Dashboard

- Submission is Routed to Assigned VFC Nurse
- Status Dashboard updated to Pending Approval

- Quick Access to Enrolling Provider's Profile
- Shows who is in queue and where action is needed

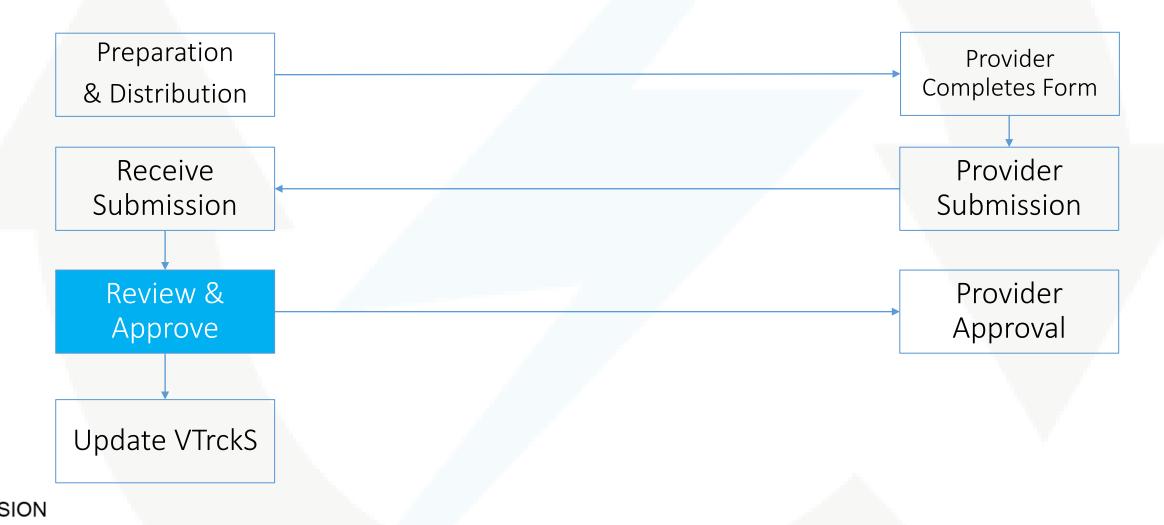
County	VFC PIN	Provider Site	Contact Name	Status	Submitted Forms	Enrollment Type
LABETTE	6264	<u>Dixit Pediatric Clinic</u>	Nurse Smith	Approval	~	Re-Enrollment
ELLIS	0026	Ellis Co Health Dept	Manager Smith	Completed	~	Re-Enrollment
SEDGWICK	6362	Redwood Family Practice	Dr. Joe	Approval	✓	Re-Enrollment
SEDGWICK	6488	GraceMed - Virginia and George Ablah Family Clinic	Manager Smith	Completed	~	Re-Enrollment
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RILEY	6064	Pediatric Associates of Manhattan, P.A.	Jon Doe	Step 3 of 4 Completed Forms Not Submitted	0	Re-Enrollment
WYANDOTTE	1013	Turner House Children's Clinic	Nurse Doe	Approval	~	Re-Enrollment



Establishes Pull with instant access to Pending Approvals

Lean Engineering: Step 2. Map the Value Stream

Kansas' High-Level VFC Re-Enrollment Process



Review & Approve: Identifying Waste

Value in This Phase – Enrollment Completion, Compliance and Approval

Associated Tasks Has Value Waste

- Review the Enrollment Form
- If Missing Information, Contact Provider
- If CDC Training Certificates Missing, Contact Provider
- Validate Prescribing Provider Credentials
- Check Prescribing Providers against
 OIG Fraud Database
- Forward to VFC Manager for Final Approval/Rejection
- Inform Provider of Approval/Rejection

Receive Submission: Understanding Value vs. Waste

Value in This Phase – Get the right information and VFC Forms to Provider

	Has Value	Waste	Understanding
Review	 Review the Enrollment Form If Missing Information, Contact Provider If CDC Training Certificates Missing, Contact Provider 		
Validate	 Validate Prescribing Provider Credentials Check Prescribing Providers against OIG Fraud Database 		All mandatory
Route	Forward to VFC ManagerVFC Manager Approves/Disapproves		
Inform	 Inform Provider of Approval/Disapproval 		

Lean Engineering: Creating Flow

Integrated Approval Process

Program*	VFC
Prescribing Provider Validation	1 of 1 validated 🛫
Sent for Final Approval	0
Final Approval	0
More Info Needed	0
☐ Signature Missing ☐ Profile Clarification ☐ Trainin	ng Certs Missing
Disapprove (requires explanation)	~
Comments	Сору Ме
	^
	\checkmark
* Required	
Comments Include comments in email to clinic	Copy Me

- Conformity in Process
- Enforces workflow
- Single Communication
 Method
- Actions auto-logged, removing need to log activity manually



Lean Engineering: Creating Flow

VFC Enrollment Pending Final Approval Dashboard

- VFC Manager's Dashboard
- Populates with Providers Sent of Final Approval

- Quick Access to Enrolling Provider's Profile
- Single Click to view completed VFC form



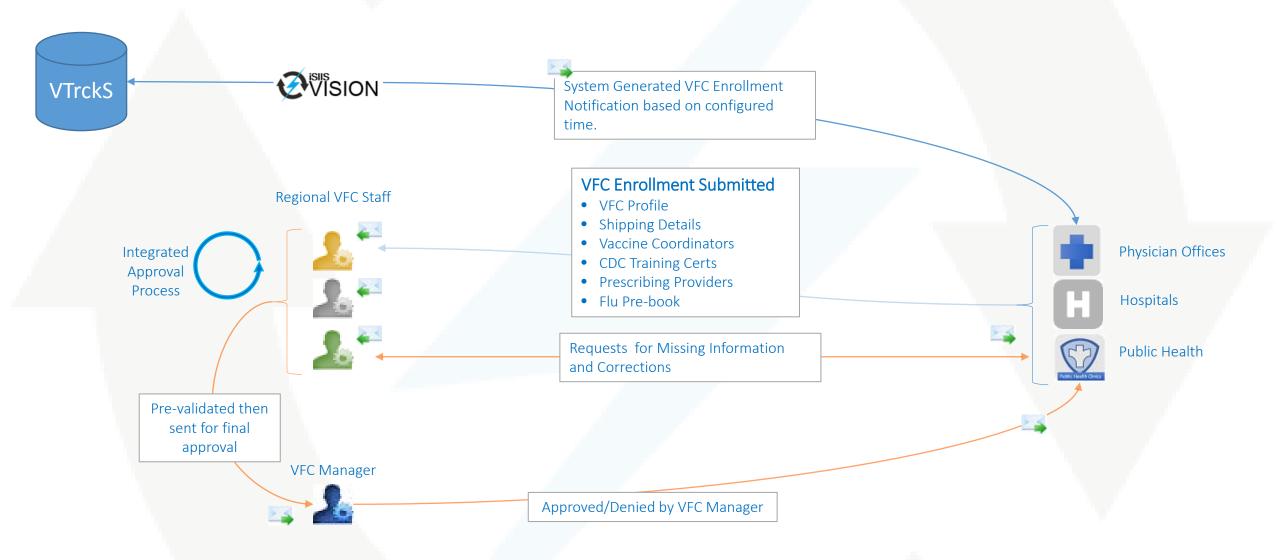
Establishes Pull with instant access to Final Approvals



Kansas' High-Level VFC Re-Enrollment Process



KIP Annual VFC Enrollment – Updated Workflow



Lean Engineering: Seeking Perfection

Year 2 Additional Improvements

Electronic Signature

- Kansas alleviated the requirement of a wet signature
- Eliminated missing signatures

Improved



Flu Pre-Book

 Enforced Flu Pre-book submission by adding it to the VFC Enrollment Process

We added more work to the Provider by adding Flu Pre-Book. Will this have a negative impact?

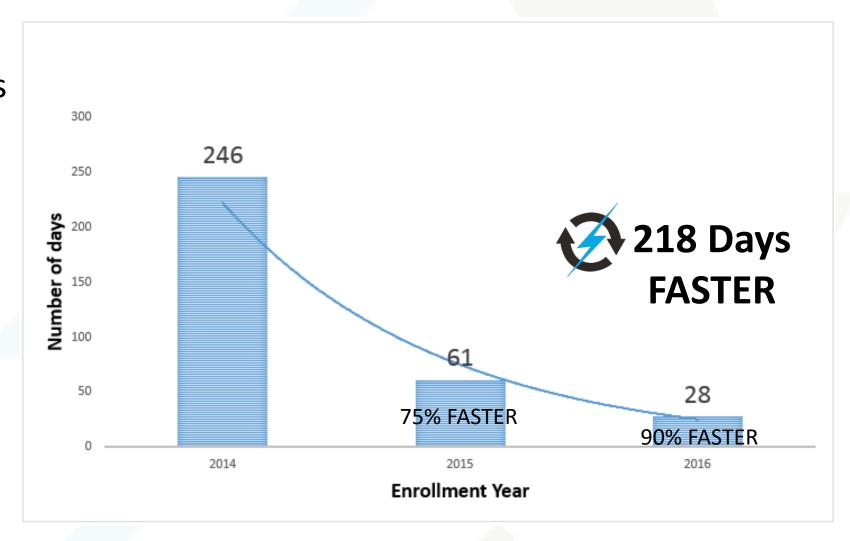


Self-Serve VFC Enrollment Results

2016 Year 2 Results

 Start to Finish: 2 days less than paper packet prep in 2014

- VFC program gains 218 days (over 7 months) to focus on
 - Provider Education
 - Site Visits
 - Compliance Issues
 - Follow Up





Lean Engineering: Seek Perfection

Year 3 Additional Improvements

Remaining Challenges

- Validating Prescribing Providers
 - Medical License
 - Medicaid Number
 - National Provider ID
- Performing Fraud Checks

Solution

- Established Automated Real-time Validation
 - OIG Fraud Database
 - & NPI Registry



Happens during form completion.

More accuracy and completeness of data submitted.

Lean Engineering: Seek Perfection

Year 3 Additional Improvements

New Challenges

Many corrections were needed for Flu Pre-book submissions in 2016

Solution

Introduced a new approval workflow for Flu Pre-book submissions

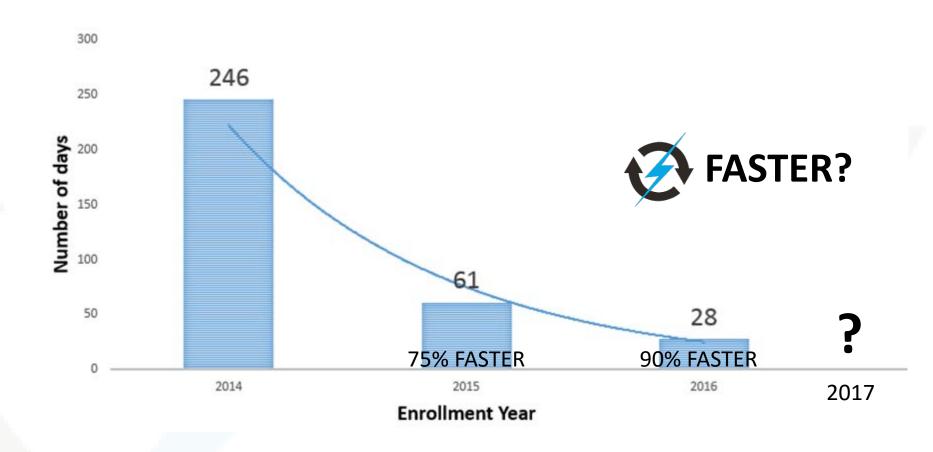
VFC Pre-book Flu	Status: 🚣 More Information	n Requested		View A	Archived: 2017	~
Manufacturer	Brand	Age	Presentation	VFC # doses	CHIP # doses	317 # doses
GSK	Fluarix Quad (IIV4)	36mos+	10 1 dose syringes	⊻ 100	<u> </u> 100	⊻ 0
GSK	Flulaval Quad	6mo+	10 1 dose syringes	⊻ 100	□ 0	⊻ o
Sanofi	Fluzone Quad (IIV4)	36mos+	10 1 dose vials	⊻ 10	□ 0	⊻ 0
Sanofi	Fluzone Quad (IIV4)	36mos+	10 1 dose syringes	⊻ 10	₽ 0	⊻ o
Sanofi	Fluzone Quad (IIV4)	6-35mos	10 1 dose syringes	⊻ 10	□ 0	⊻ o
					Revie	w & Approve



Self-Serve VFC Enrollment Results

2017 Year 3 Results







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