



VA

U.S. Department
of Veterans Affairs

What is VINCI?



VA Informatics
and Computing
Infrastructure



What is VINCI?

**resource supporting
your research**

Mission

Improve the compliance, efficiency, and quality of VHA research with services and innovations supporting acquisition and analysis of healthcare data.



What is VINCI?

Data, applications, services, and computing
within a
central, secure location inside VA intranet.



What is VINCI?

Data, applications, services, and computing



Insights from advanced analytics at the Veterans Health Administration

Fihn SD, Francis J, Clancy C, Nielson C, Nelson K, Rumsfeld J, Cullen T, Bates J, Graham GL. Health Aff (Millwood). 2014 Jul;33(7):1203-11. doi: 10.1377/hlthaff.2014.0054.



What is VINCI?

Data, **applications**, services, and computing





What is VINCI?

Data, applications, **services**, and computing

Education
and Training

Help Tickets

Data Access
Assistance

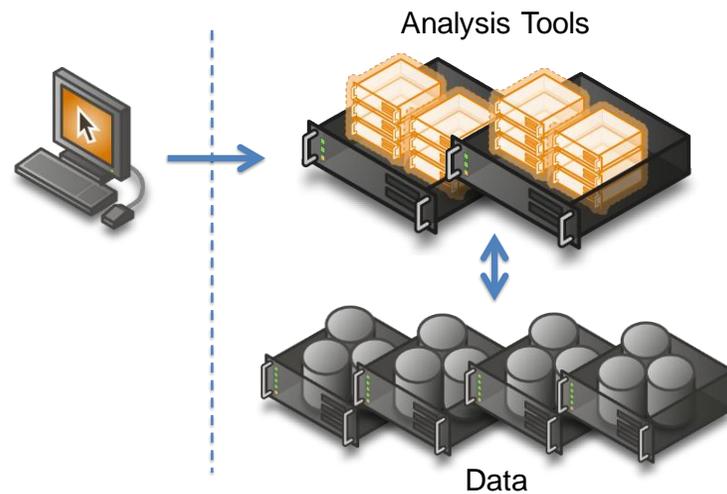
Study
Feasibility
Assistance

Data
Provisioning



What is VINCI?

Data, applications, services, and **computing**

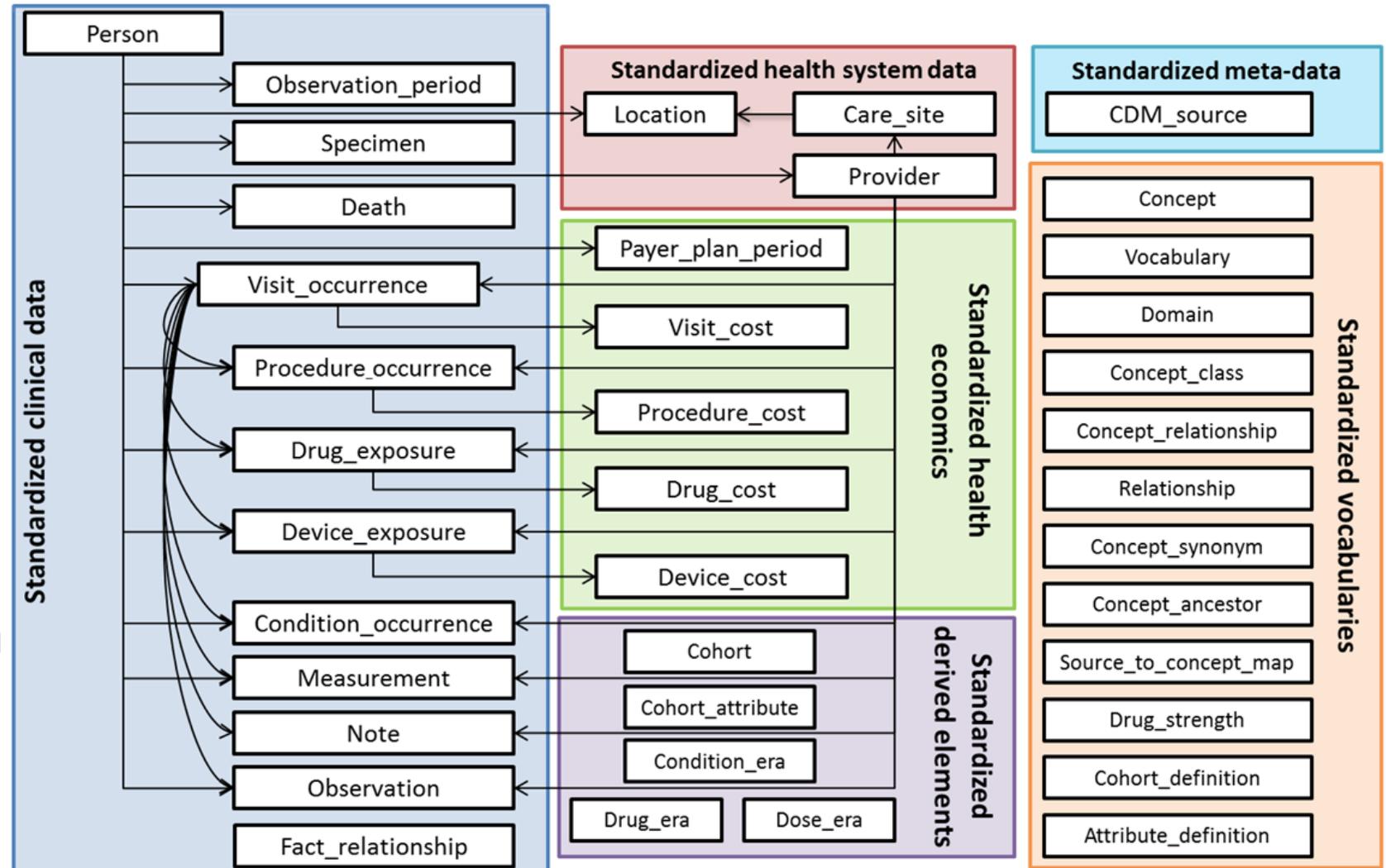




What is VINCI?

OMOP

- Mapping
- Standardization
- Quality Assurance
- Simplicity
- Complexity
- Community-driven
- Iterative
- Tools





What is VINCI?

Natural
Language
Processing

- ChartReview
- NLP output
- Available tools
- Coordinating development efforts

The screenshot displays the ChartReview application interface. The main window is titled "ChartReview" and includes navigation links for Home, Admin, Help, Settings, and Logout. The interface is divided into several panels:

- Annotation Panel:** Shows a task named "Blood Transfusions Associated with Dialysis" for a "Chronic Kidney Disease Patient 0001". It lists three annotations: "Evidence of Transfusion" (green), "Indication for Transfusion" (orange), and "Relevant Laboratory Value" (red). Below this, there are filters for "All Annotations" and a table with columns for "Span", "Class", and "Creation Date". A sample entry shows "transfused with 2 units RBC." with the class "Evidence of Transfusion" and date "08/23/2014".
- CKD Diagnoses Panel:** Displays a list of 39 diagnoses. The table includes columns for "Diagnosis D.", "Code", "Description", and "Type".
- CKD Medications Panel:** Displays a list of 432 medications. The table includes columns for "Medication Date", "Medication Name", and "Days Supply".
- CKD Note Panel:** Displays a list of 221 notes. The table includes columns for "Reference Date" and "Title".

At the bottom of the CKD Note panel, there is a text snippet: "The patient presents with anemia (Hgb of 9g/dL) after some blood loss from an outpatient procedure. Packed red blood cells were ordered and the patient was transfused with 2 units RBC. After transfusion, patient's Hgb was 12 g/dL." The text is color-coded to match the annotations: "presents with anemia" is green, "Hgb of 9g/dL" is orange, "transfused with 2 units RBC" is red, and "Hgb was 12 g/dL" is green.

synthetic medical record data



What is VINCI?

HSR&D

OI&T



What is VINCI?

ORD

OABI

NDS

OIA

VIReC

HSR&D

OI&T Sustainment

OI&T Product Development

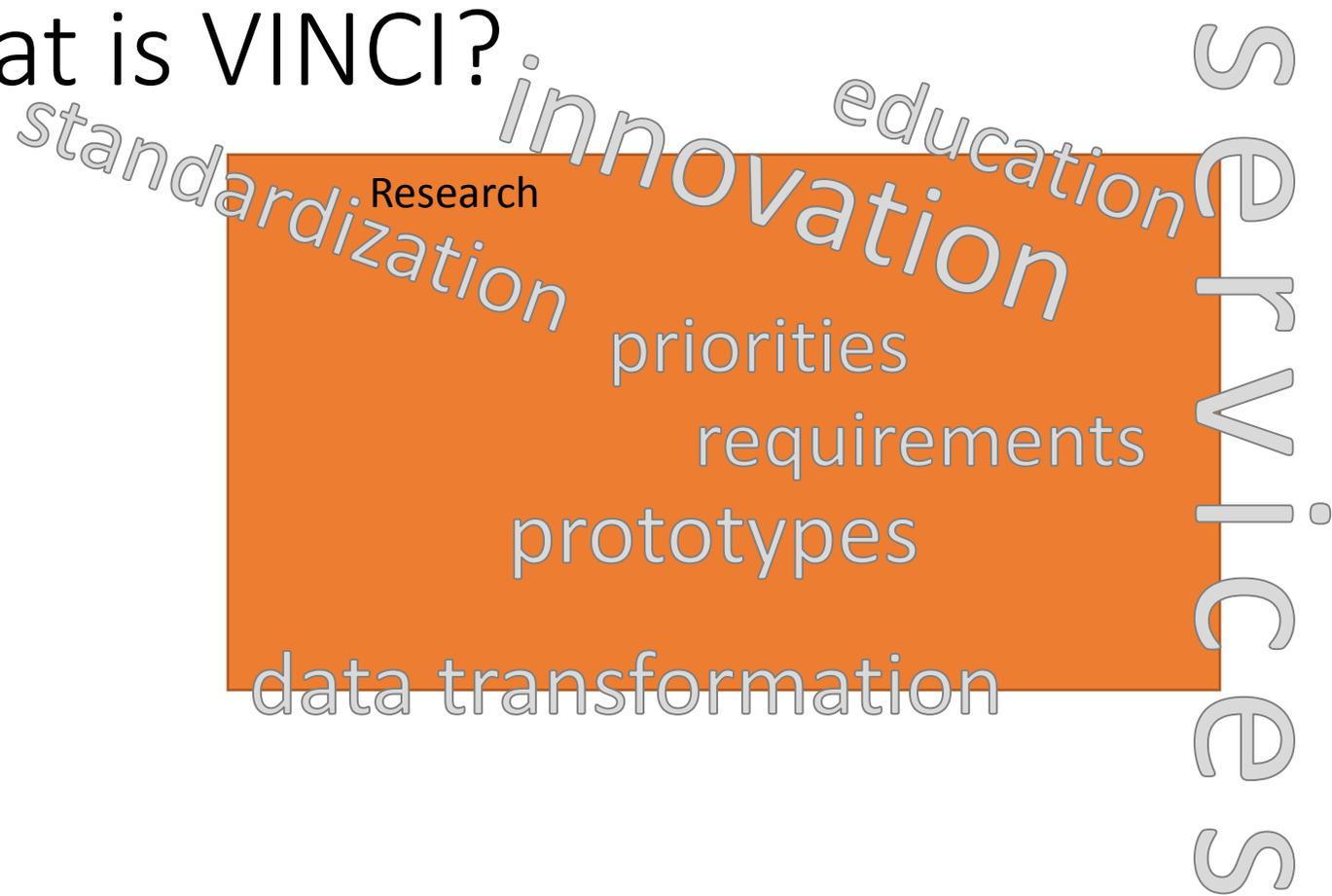


What is VINCI?

Research



What is VINCI?





What is VINCI?

standardization innovation education

Research

new products
new features

enterprise
development

priorities
requirements
prototypes

data transformation

deployment

architecture

bug fixes

performance testing

operations and maintenance

S
E
R
V
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C
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S

Partnerships

COINs, VA research groups, CDW, ORD, NDS, OABI, OIA, MAVERIC, MVP, VIREC, DaVINCI, Connected Health, CSP, Clinical Trial Network, OHDSI, pSCANNER

S

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S

VINCI-Branded Services

standardization innovation education

Research

Direction

priorities

requirements

prototypes

data transformation

deployment

architecture

bug fixes

performance testing

operations and maintenance

Product Development
Development

new products
new features

enterprise
development

Sustainment
Support

Partnerships

COINs, VA research groups, CDW, ORD, NDS, OABI, OIA, MAVERIC, MVP, VIREC, DaVINCI, Connected Health, CSP, Clinical Trial Network, OHDSI, pSCANNER

Product Development
Development

VINCI-Branded
Services

new products
new features
enterprise development

Research
Direction

standardization innovation education

priorities
requirements
prototypes

VINCI Users

S
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Sustainment
Support

deployment architecture
bug fixes performance testing
operations and maintenance

data transformation



What is VINCI?

- 6,524 Users
 - ↑ >1500 2 years in a row
 - ↑ 1271 in FY16 so far
- 2,340 Projects
 - ↑ >400 2 years in a row
 - ↑ 351 in FY16 so far
- 1,143 Education & Support Requests on track for ↑ >676 from FY15



Succeeding in VINCI

What does an ideal VINCI user look like?

data expert

optimization

subject matter expertise

big data analysis

statistical methods

SQL, R/SAS/STATA

best practices

study design



Succeeding in VINCI

What about the rest of us?



Succeeding in VINCI

What can VINCI do?

- Provide you project space and provision data
- Help you troubleshoot
- Assist with data access
- Point to information resources



Succeeding in VINCI

What can you do?

- Plan for the entire research workflow





Succeeding in VINCI

What can you do?

- Get to know the data

Investigate the
Target Study
Population

Discover the
Care Workflow

Understand the
Underlying Data



Succeeding in VINCI

What can you do?

- Follow best practices

CDW Introduction and Policies

Check your queries against Guide

Understand how to use the Estimated Execution Plan

Request training for SAS Enterprise Guide



Succeeding in VINCI

What can

- Find
- Ask ques
- Seek

Use Responsibly



VINCI and I

- Concierge
VINCI@va.gov
- Help Tickets
- Cyber Seminars
- “Happy Hour”
- Meet VINCI
- Satisfaction Surveys
- VINCI User Advisory Group
- Directed Feedback



VINCI and I

FEEDBACK THEME

- Insufficient Documentation and Training Resources

Revamped
VINCI Central

[vaww.vinci.med.va.gov/
vincicentral](http://vaww.vinci.med.va.gov/vincicentral)

The screenshot shows the VINCI Central website interface. At the top, there is a navigation bar with links for Home, About VINCI, and Old VINCI Central. Below this is the VINCI Central logo and a search bar with a 'Search' button. To the right of the search bar, there is contact information for Scott Duvall, including his email (VINCI@VA.gov), a Concierge Desk phone number (1-801-872-3324), and a link to Request Help Online.

The main content area features a 'New To VINCI' banner with a 'New To VINCI' logo and a description: 'Learn more about VINCI, VINCI Studies and the virtual environment.' Below the banner is a grid of tiles for various services: My VINCI Dashboard, VINCI University, VINCI Tube, VINCIpedia/FAQ, User Guides, VINCI Services, Computing Cloud, Data Sources, and Applications. Each tile has a title and a brief description.

On the left side, there is a sidebar menu with the following items: New To VINCI, My VINCI Dashboard, VINCI University, VINCI Tube, VINCIpedia/FAQ, User Guides, VINCI Services, Computing Cloud, Data Sources, Applications, Events, Policies and Forms, Quick Links, and Launch Workspace.

At the bottom left, there is a notice: 'Retiring R 3.2.2 effective April 30 from the VINCI Workspace. In VINCI's continuing efforts to improve the VINCI environment, we have installed a newer version of R thus we will be retiring R 3.2.2 effective...'

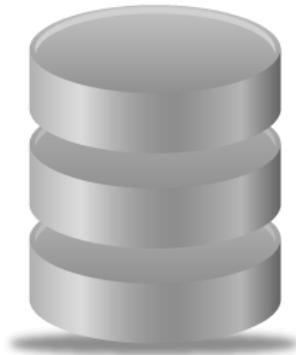


VINCI and I

FEEDBACK THEME

- Environment Performance

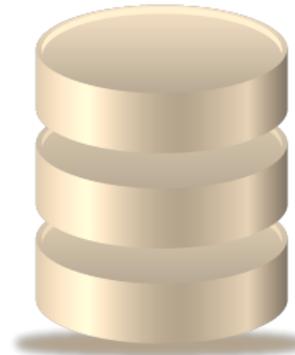
Static



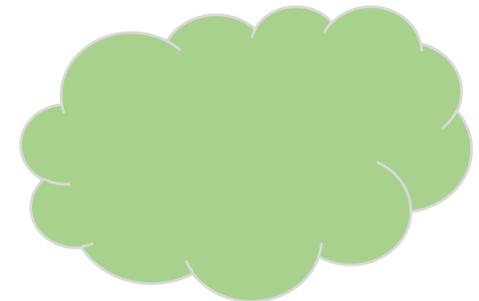
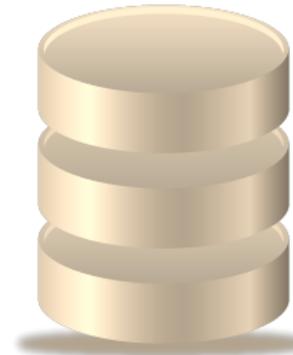
Live



Live



Live





VINCI and I

FEEDBACK THEMES

- Disconnections / Outages
- Availability of Tools / Versions
- Difficulty Communicating
 - Responsiveness, Transparency, Better Customer Service
- Analysis Gap
- Data Access / Regulatory Confusion





VINCI@va.gov

Scott DuVall

scott.duvall@va.gov