



NATIONAL CENTER ON
Program Management and Fiscal Operations

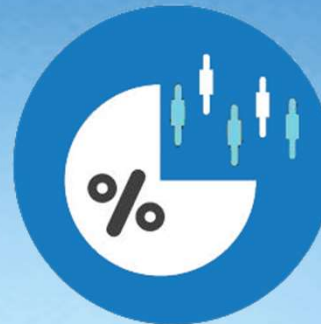
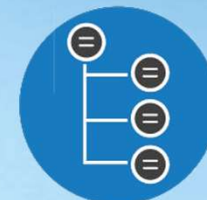


Part Two: Head Start Data Series:

Efficiency in Data Leadership and
Capacity

Train the Trainer

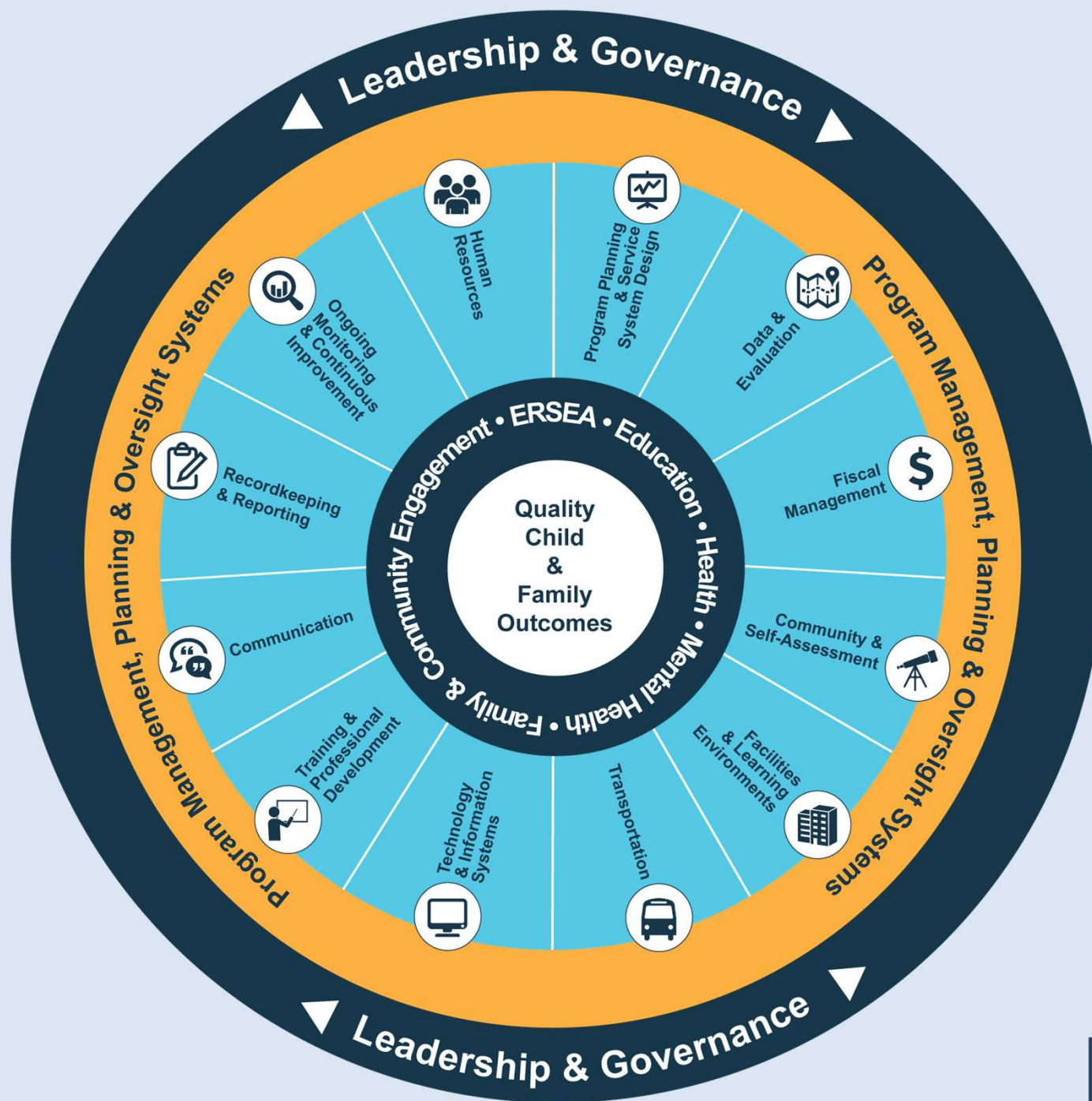
Data is
Oxygen
for fueling
Deep
Learning
Systems



**BIG
DATA**



Head Start Management Systems



Data is Oxygen for fueling Deep Learning Systems

Community &
Self-Assessment

Fiscal
Management

Transportation

Technology &
Information
Systems

Training &
Professional
Development

Recordkeeping
& Reporting

Communication

Ongoing Monitoring
& Continuous
Improvement

Program
Planning &
Service System
Design

Facilities &
Learning
Environments

Data &
Evaluation

Human
Resources

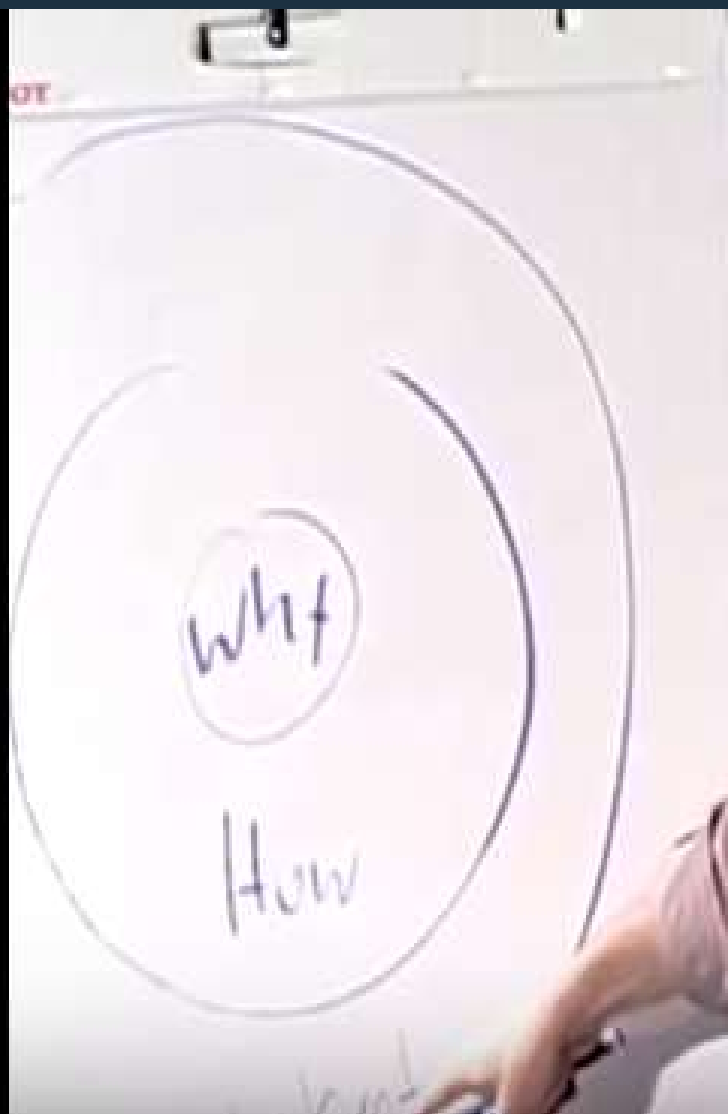
Organizational Self-Assessment

Where is your program on the following features?

- The language of data (data literacy)
- Data analysis (opportunities, skills, and techniques)
- Data management (four elements)
- Storytelling with data (data visualization, effective tools)

Talk About Vision

Simon Sinek



The Language of Data

“Everything should be made as simple as possible, but no simpler.”

—Albert Einstein

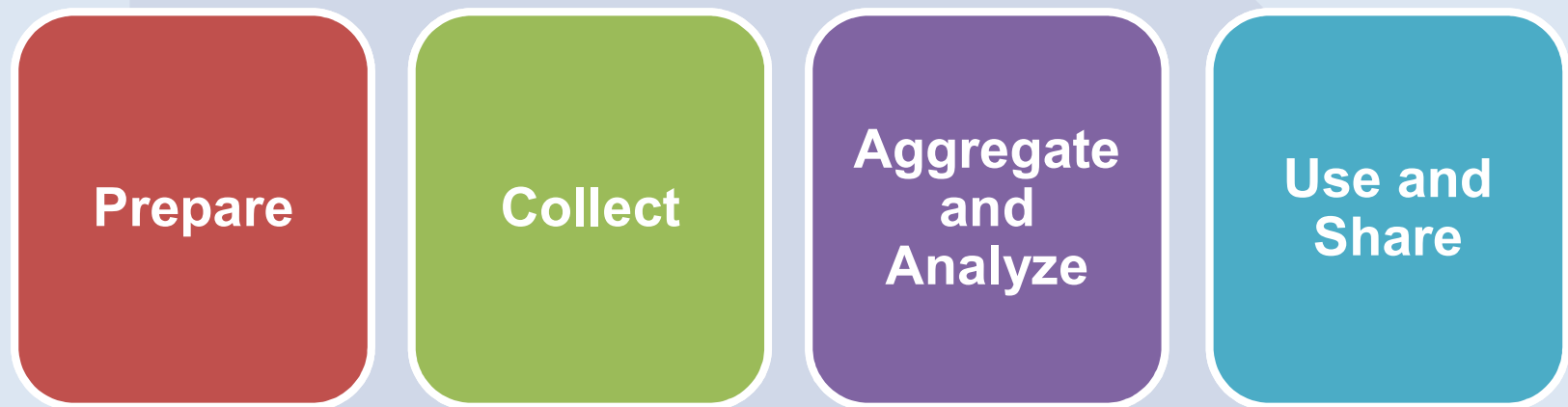
Learning Objectives

Through this training participants will:

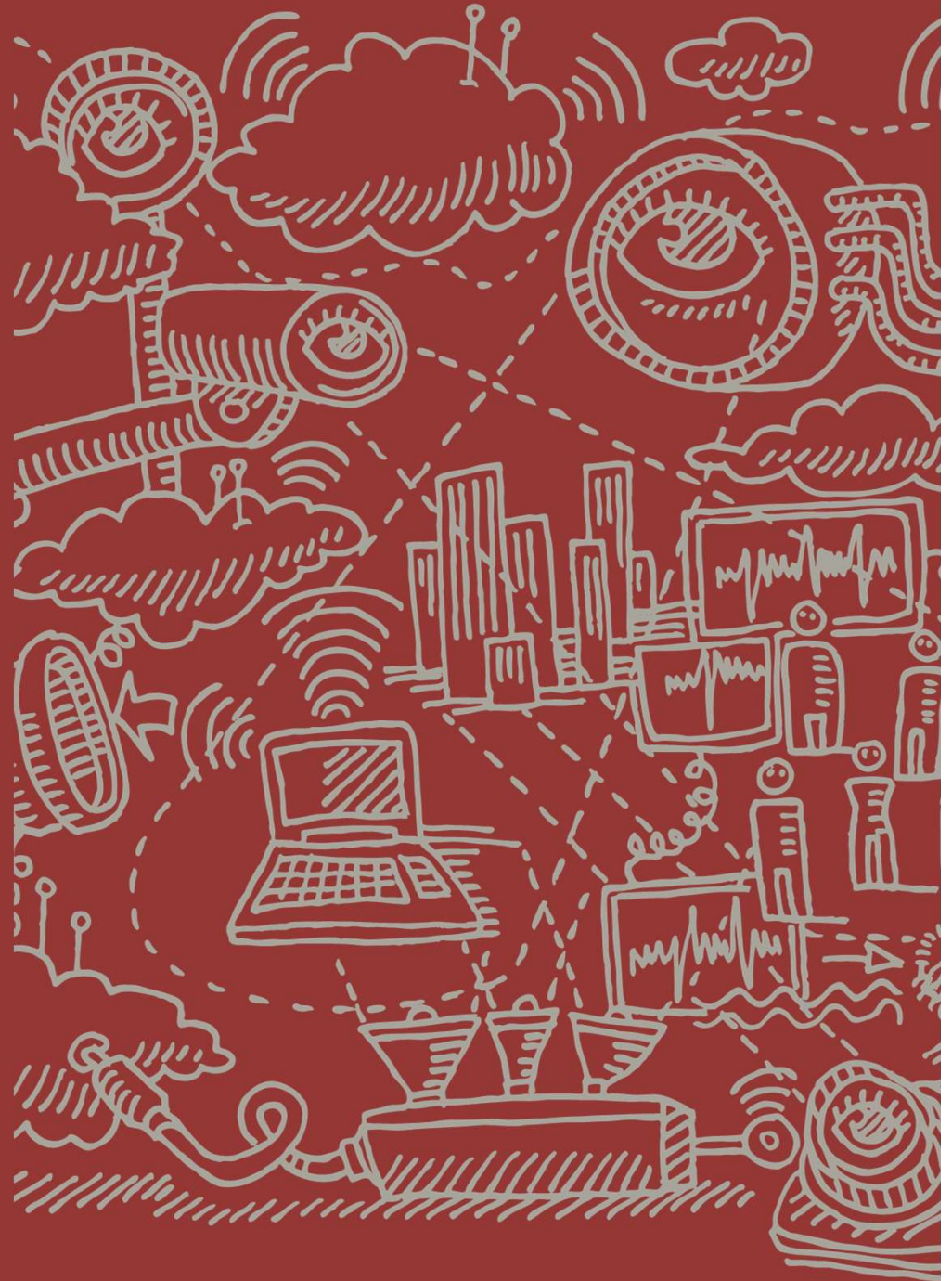
- Recognize the relationship between data management, continuous quality improvement, and strong systems and services
- Review and update data management procedures
- Identify techniques and skills to strengthen data analysis
- Connect fiscal accountability with effort and effect
- Consider ways to establish and communicate data-informed goals with measurable objectives

The Data-Driven Journey

The High and Low Points



Cultivating a Data Culture



The Changing Landscape

Head Start programs should:

- Shift from “compliance-only” thinking to a culture of “continuous improvement”
- Move from being simply “good stewards” to demonstrating the impact of the investment in our communities

CONCEPTUAL ELEMENTS of Continuous Quality Improvement

Leadership in Data Management

- Be Transformational
- Adopt and Lead Change Strategy
- Communicate Clearly
- Motivate for Innovation and Creativity
- Distribute Responsibilities
- Be a Role Model



NATIONAL CENTER ON

Program Management and Fiscal Operations

Source:

Derrick-Mills, Teresa, Heather Sandstrom, Sarah Pettijohn, Saunji Fyffe, and Jeremy Koulish. (2014). Data Use for Continuous Quality Improvement: What the Head Start Field Can Learn From Other Disciplines, A Literature Review and Conceptual Framework. OPRE Report # 2014-77. Washington, DC: Office of Planning, Research and Evaluation, Administration for Children and Families. U.S. Department of Health and Human Services.

Commitment of Resources



- Commit, finance, and sustain technology
- Commit leadership time
- Commit staff time

Culture of Collaborative Inquiry



- Promote systems thinking
 - Share learning
 - Engage partners
 - Create safe space

Professional Development



- Understand data systems
- Develop analytic capacity
- Integrate knowledge and beliefs

Organizational Characteristics



- History of improvements
- Program characteristics
 - Size
 - Structure

Analytic Capacity



- Assess technological capital
- Assess human capital
- Assess data capital

Management of Program Data



- Security of data
- Usability • Integrity
- Availability

Environment



- Nongovernmental funders
- Government mandates
- Accreditation, licensing and professional systems
- Time

Quality Child & Family Outcomes

Leadership in Cultivating a Culture of Data



*Best-Selling Author of Mindset
Professor at Stanford*

"My work bridges developmental psychology, social psychology, and personality psychology, and examines the self-conceptions (or mindsets) people use to structure the self and guide their behavior. My research looks at the origins of these mindsets, their role in motivation and self-regulation, and their impact on achievement and interpersonal processes."

Carol Dweck

- Carol Dweck video
- <https://www.youtube.com/watch?v=NWv1VdDeoRY>



What are the Key Aspects of a Strong Data Culture?

- Curiosity
- Reflection
- Tolerance for vulnerability
- Use of feedback
- Systems thinking

Moving Beyond a Culture of Compliance to a Culture of Continuous Improvement, OPRE, January 2015

Stages of Organizational Readiness

Developmental Stages of Organizational Readiness in Head Start Programs

Dormant

At this stage, the organization does not know where to start. Data collection may occur from time to time, but there is no formal reporting. There are no data systems in place, such as dashboards or simple collection methods. Staff are often overwhelmed by the thought of measurement and it falls to the bottom of the to-do list. Alternatively, there may be an emphasis on collecting more data than is necessary, but no one relates it to decision-making. There is not a reflection process for analyzing success or failure for future use.

Testing and Coordinating

At this stage, the organization is regularly collecting data, but it is stored across different spreadsheets and collected by different people or departments. Data are not linked to organizational results or mission-driven goals across programs. Discussions on how to improve results are rarely part of staff meetings.

Scaling and Institutionalization

At this stage, there is an organization-wide system and dashboard for collecting data that are shared with different departments. There are different views or levels of detail for senior leaders, line staff, or other stakeholders. There are periodic (e.g., weekly, biweekly, monthly, or quarterly) check-ins to evaluate what is working and what is not. The organization provides training and professional development for staff to learn how to use measurement tools.

Empowering

At this stage, performance indicators are used across programs throughout the organization. There is a staff position responsible for setting the overall agenda for data collection and reporting, helping staff understand data, and assuring that systems and timelines are successful. All staff, however, are empowered and expected to check, apply, and interpret their own data. In addition to periodic check-ins, the organizational dashboard includes goal-oriented performance metrics. The organizational dashboard is shared across departments and there is a process for analyzing, discussing, and applying results. Data visualization techniques are used not only to report the data analysis but also to reflect on best practices culled from the data.

Moving Beyond a Culture of Compliance to a Culture of Continuous Improvement,
OPRE, January 2015



NATIONAL CENTER ON
Early Childhood
National Centers
Program Management and Fiscal Operations

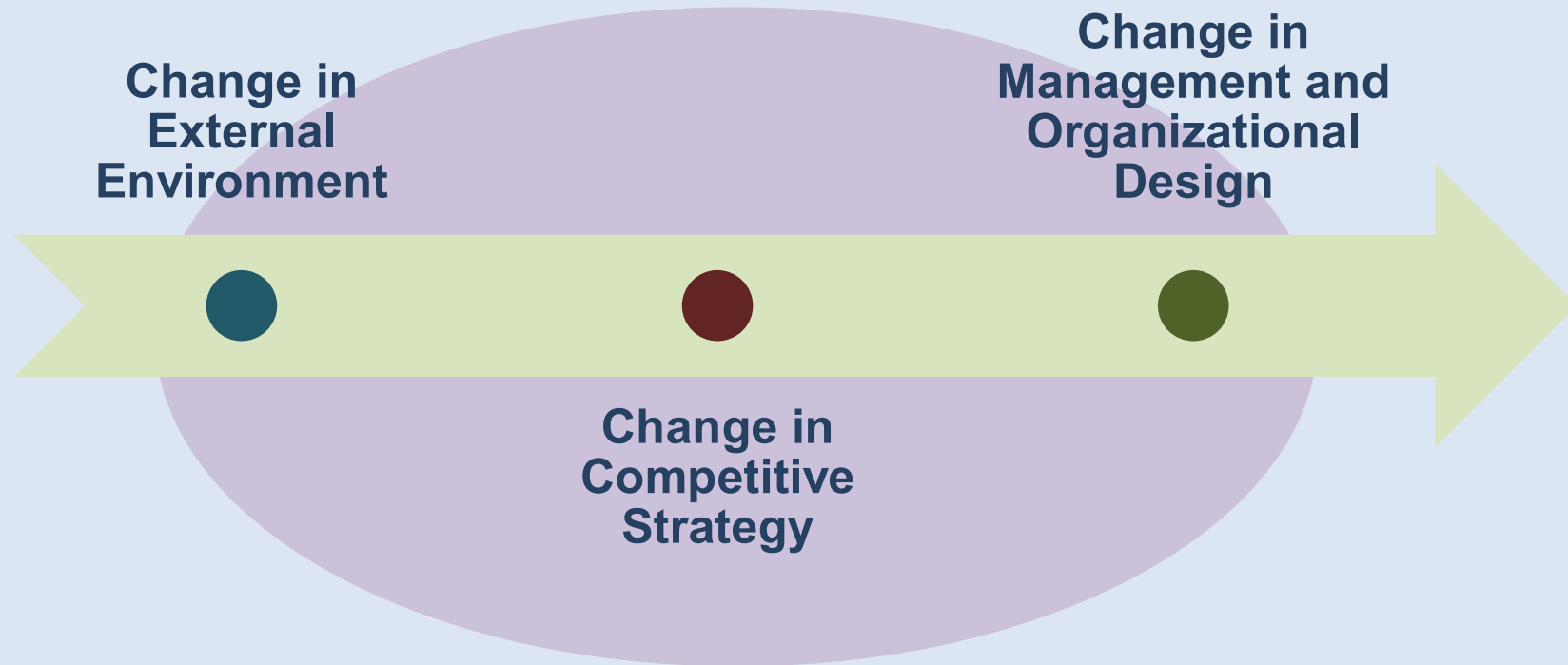


ADMINISTRATION FOR
CHILDREN & FAMILIES
pmfo@ecetta.info • <https://eclkc.ohs.acf.hhs.gov/hslc/tta-system/operations>



NATIONAL CENTER ON
Early Childhood
National Centers
Program Management and Fiscal Operations
Tel: 888 874-5469

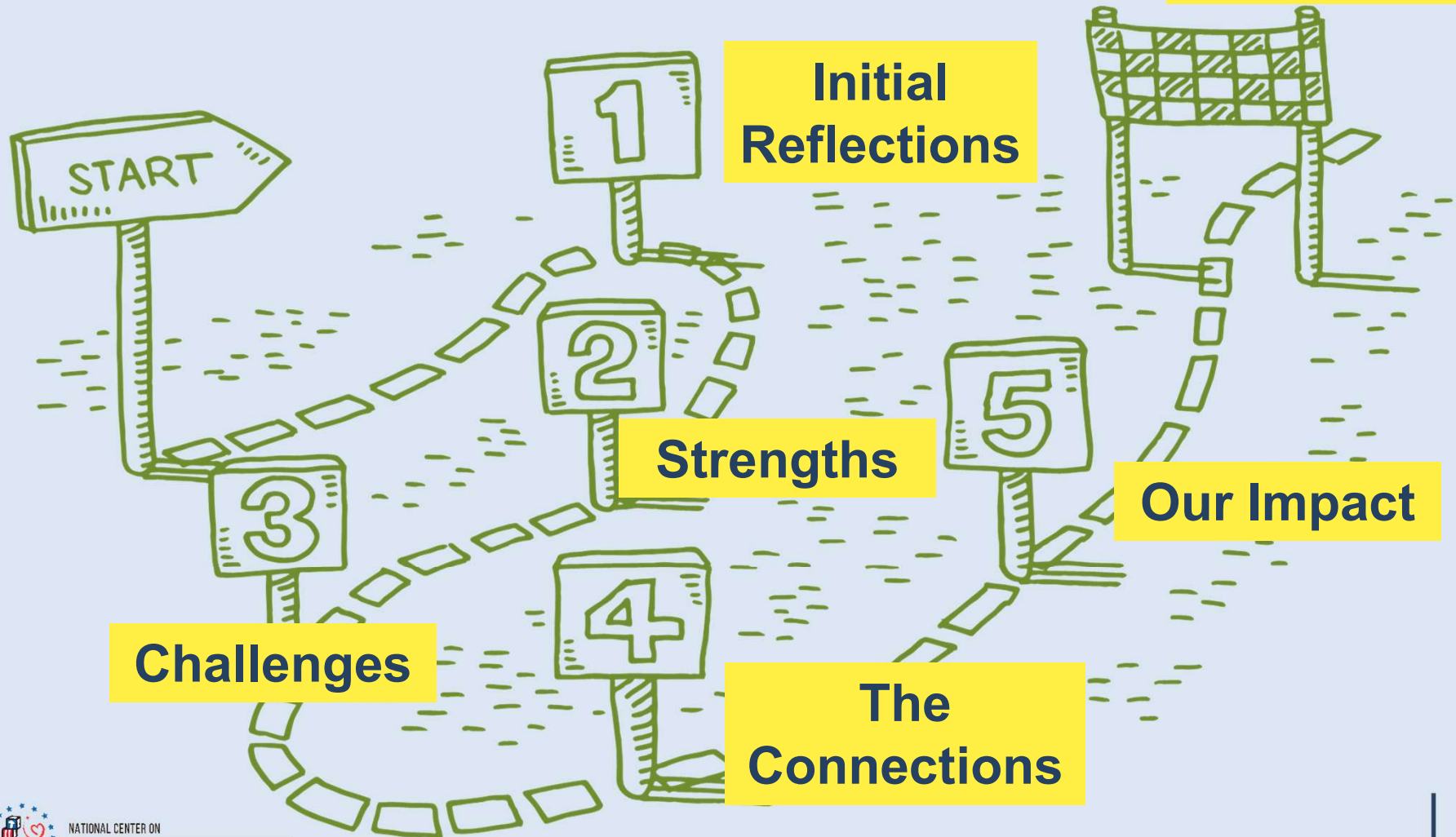
Change Leads to Change



Going From Data to Story

Touching the Data at Multiple Points

The Story



Data Touch Point #1



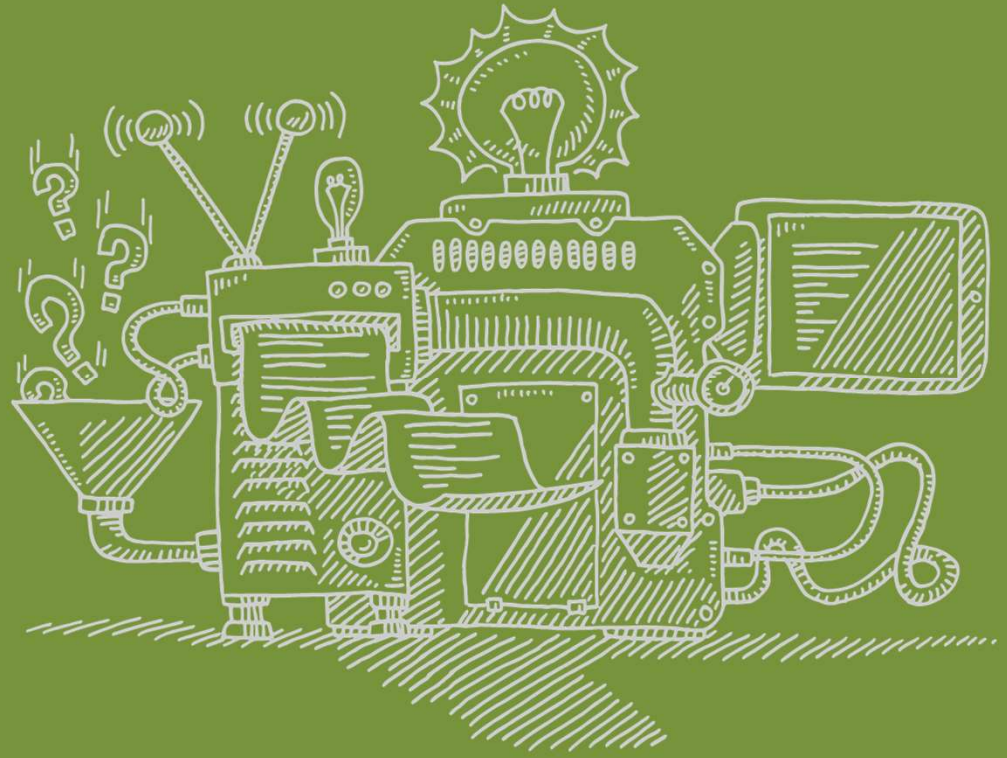
- A. **What emerges from the data?**
- B. What questions come up?
- C. What is clear?
- D. What is confusing?

Reflect on Cultivating a Data Culture

Where do you see a strong data culture in your program?

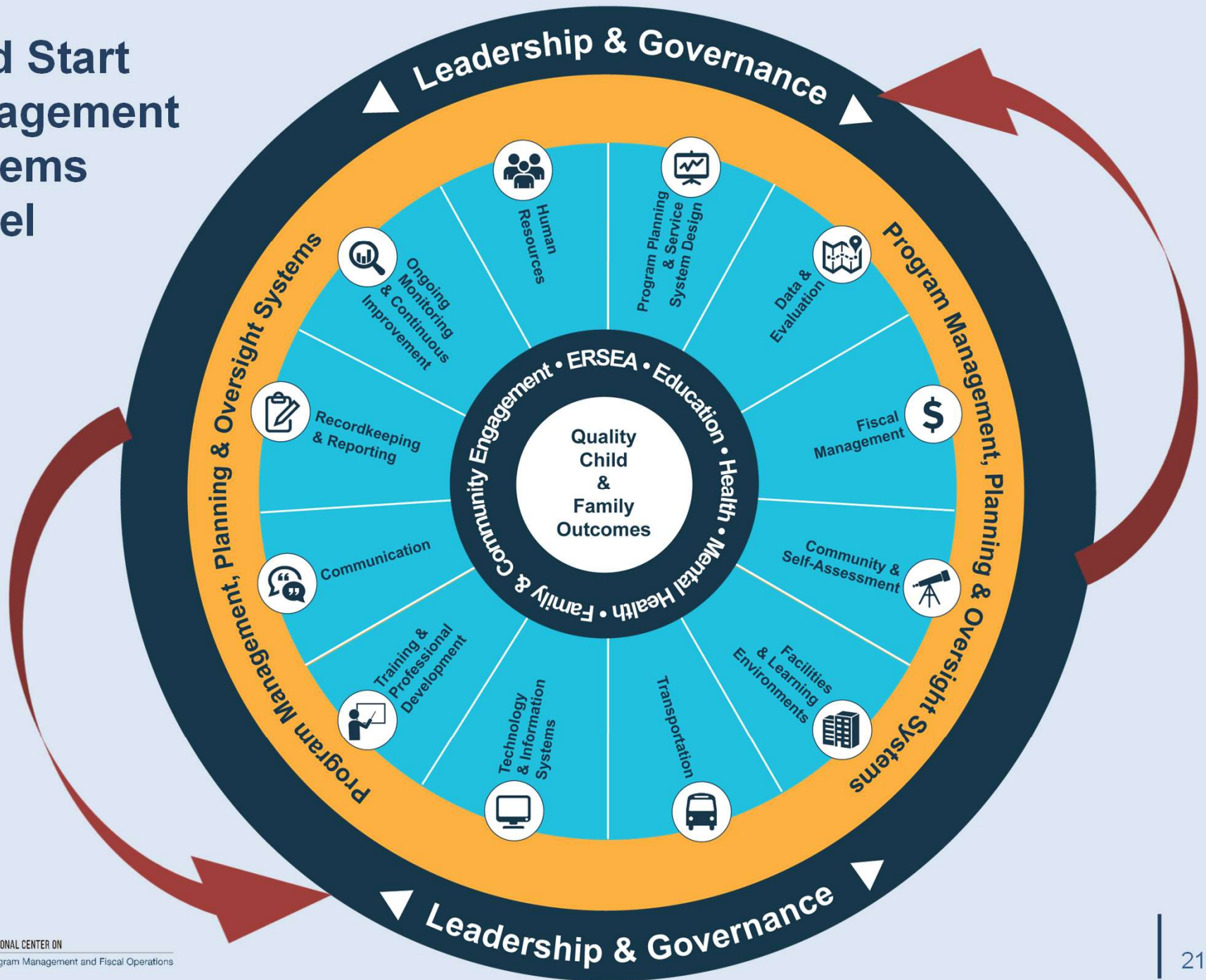
What are some ways you can begin to build a stronger data culture?





The Management of Program Data

Head Start Management Systems Wheel



Data Touch Point #2



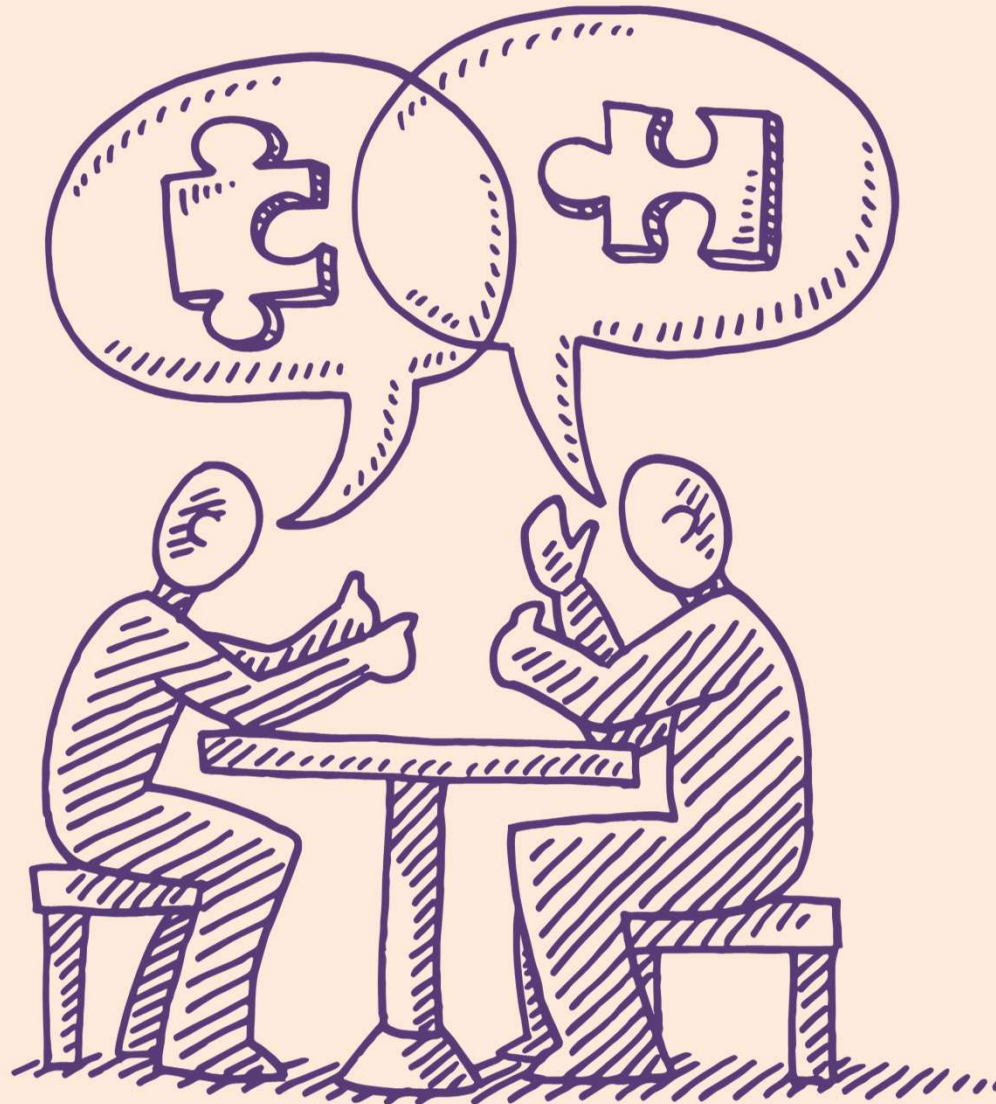
According to the data, what are the strengths of Community Connections' systems and services?

§1302.101(b) – Coordinated Approaches



Coordinated approaches. At the beginning of **each program year**, and on an **ongoing basis** throughout the year, a program **must design** and **implement program-wide** coordinated approaches that ensure...

Coordinated Approaches: What Were They Thinking?



§1302.101(b) – Coordinated Approaches

a. Implementation

b. Coordinated approaches

- (1) Training and professional development system
- (2) Dual language learners
- (3) Children with disabilities
- (4) Management of program data



What Do the Performance Standards Say?

Availability



Security

Usability

Integrity

Management of Program Data

Management of Program Data



- Security of data
- Usability • Integrity
- Availability

Guidance for Data Plan Development

Guidance for Management of Program Data

The Head Start Program Performance Standards (HSPPS) require programs to implement a coordinated approach to management of program data to effectively support the availability, usability, integrity, and security of data. A program must establish procedures on data management, and have them approved by the governing body and Policy Council, in areas such as quality of data and effective use and sharing of data, while protecting the privacy of children's records (1302.101 (b)(4)). This resource provides guidance for development of these procedures. Guiding questions in each area provide a mechanism for identifying strengths and considerations for improvement in each of the four identified areas of data management. The narrative points provide suggestions for the writing of data management procedures.

Availability – data is present and ready for use

Guiding Questions

- Has the program identified the data needed to monitor HSPPS-compliance and progress on five-year goals?
- Does management have access to data in a timely manner?
- Is data made available to the governing body and Policy Council for use in decision making?
- Is data shared across program areas and among job classifications to enable staff to understand program operations and client needs?
- Are systems in place to ensure that hardware is up to date and functioning properly?

Narrative Points

- How data is prioritized and tracked
- How data is shared with leadership, across programs, and with staff
- Processes for obtaining and maintaining software, making timely reports, and backing up data

Usability – the extent to which data can be used effectively and efficiently
Usability also refers to the ease with which software and web applications can be used to achieve desired goals.

Guiding Questions

- Are the software and web applications tracking the data programs need?
- Is staff able to use the software and web applications to meet their job responsibilities?
- Are child and family intake forms, surveys, and other recordkeeping documents coordinated with the software and web applications?
- Is data gathered and shared in a timely manner?
- Are reports accurate, appealing, accessible, and audience-specific?



ADMINISTRATION FOR
CHILDREN & FAMILIES

pmfo@ecetta.info • <https://ecic.ohs.acl.hhs.gov/hslc/ta-system/operations>



NATIONAL CENTER ON
Early Childhood
Program Management and Fiscal Operations
Tel: 888 874-5469



NATIONAL CENTER ON
Early Childhood
Program Management and Fiscal Operations

Procedures: Data Availability



Procedures: Data Integrity



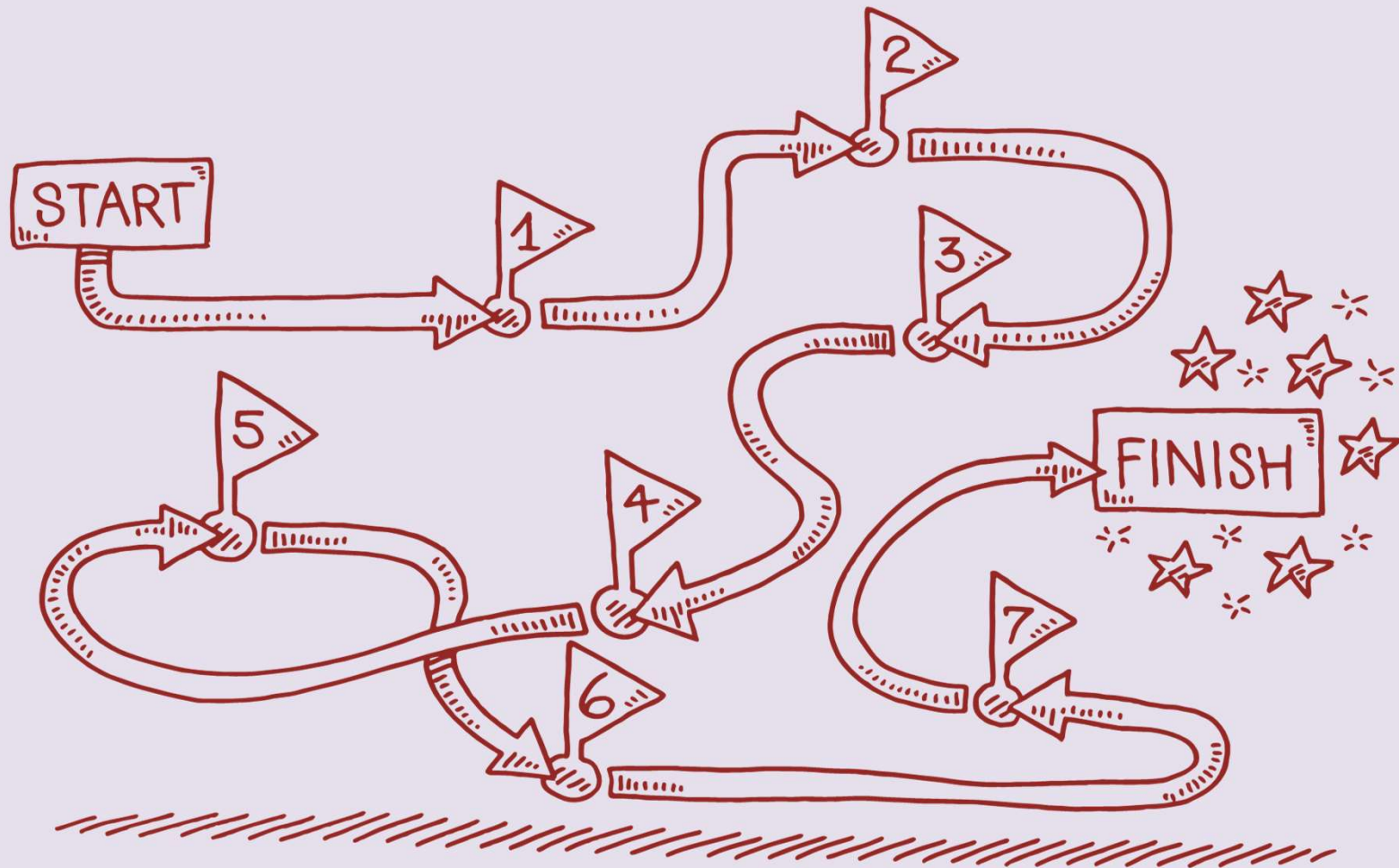
Procedures: Data Usability



Procedures: Data Security



A Resource for Developing Procedures



Digital Data Inventory

Digital Data Inventory

Type of data	Format (digital or other)	Who collects and organizes it?	Who reviews it? (How frequently is it reviewed?)	Who manages it?	Users?	Where is it kept?	Does it contain personally identifiable information? (PII)	Purge Control: How frequently is data erased, removed, or stored?



ADMINISTRATION FOR
CHILDREN & FAMILIES

pmfo@ecetta.info • <https://eclkc.ohs.acf.hhs.gov/hslc/tta-system/operations> • Tel: 888 874-5469



NATIONAL CENTER ON
Early Childhood National Centers
Program Management and Fiscal Operations



NATIONAL CENTER ON
Early Childhood National Centers
Program Management and Fiscal Operations

Reflect on Management of Program Data

Where is your program strong in the management of program data?

What are some ways you can build a stronger plan for managing program data?



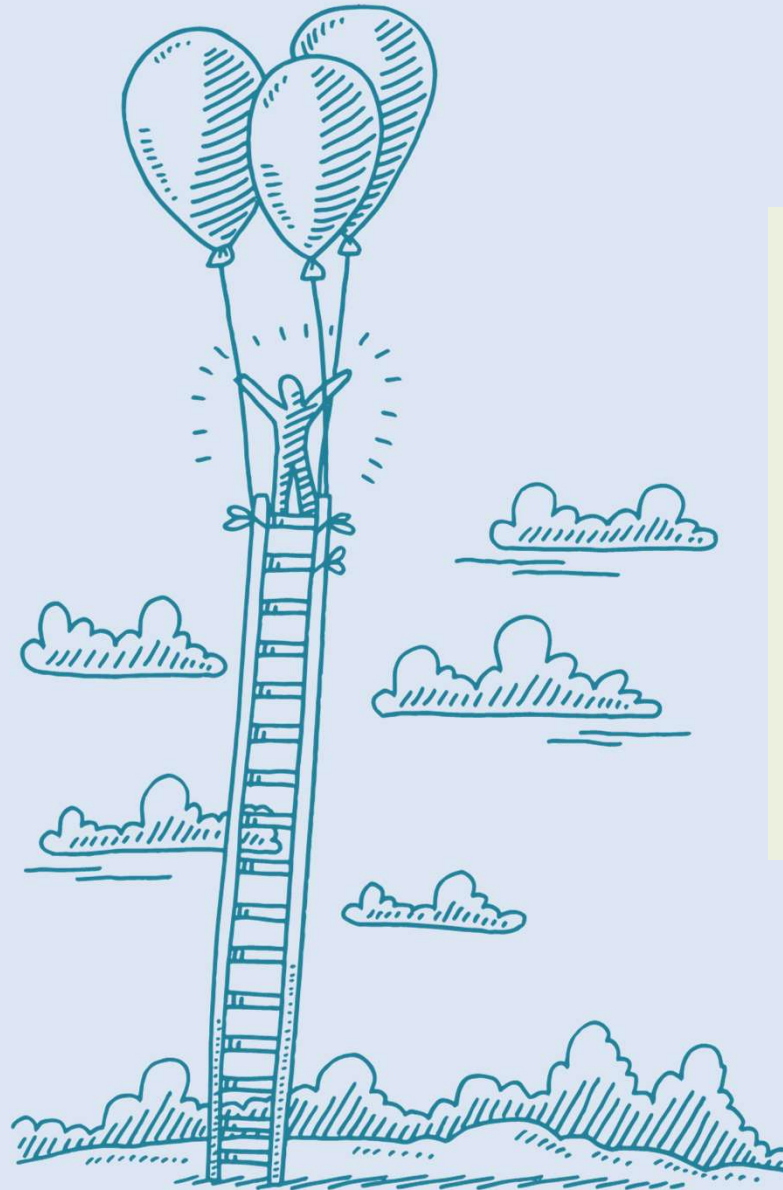


Analytic Capacity: Using Data Analysis to Show Outcomes

What Success Looks Like

What does success look like for your grantee?

How do you know when you have achieved an acceptable level of success?



Three Core Questions



How much did we spend?

How much did we do?

How much did it matter?

Looking at the Data – Roadmap to Analytic Capacity

Beginning with the end in mind,
What would successful goal attainment look like?

What data is necessary to show
measurable steps towards goal attainment?



Conceptual Elements: Analytic Capacity

Analytic Capacity



- Assess technological capital
- Assess human capital
- Assess data capital

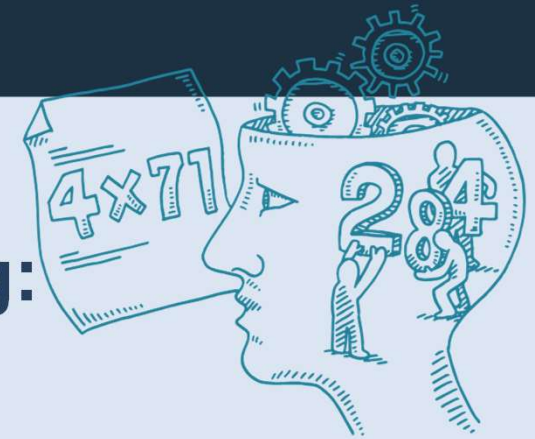
Technological Capital

Systems

- Do you understand your system(s)?
- Is it up to date?
- Is professional development needed to use effectively?
- Does the hardware have the necessary specifications to operate the software effectively?

Protections for personally identifiable information

Human Capital



Can staff effectively do the following:

- Use the four data activities:
 - Prepare
 - Collect
 - Aggregate & Analyze
 - Use & Share

What is the plan to increase capacity?

- Training
- Review historical data
- Leadership towards goal attainment (creating a culture of continuous quality improvement)

Data Capital

Data Quality

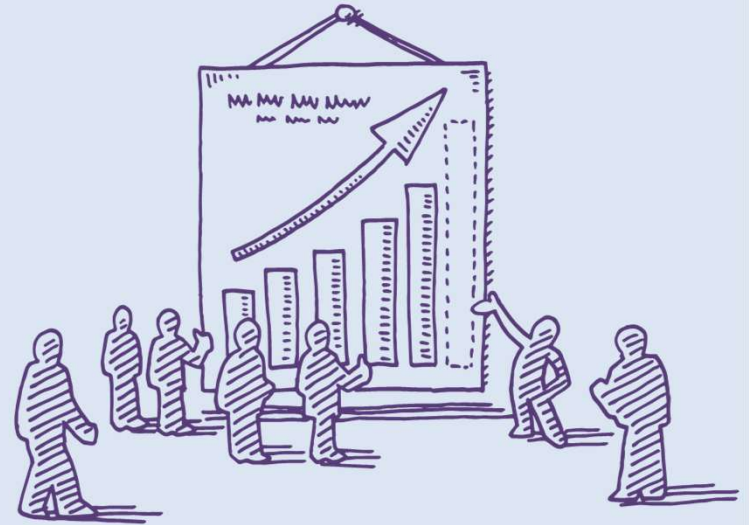
- Quantitative
- Qualitative

Data Integrity

- Is there strength to the data?
- Importance relative to other data?

Data Availability

- Accessing data put into systems
- Historical data



Looking at the Data – Roadmap to Analytic Capacity

Do community partners have an impact on goal attainment?

How and when do you receive it?

Do you need data from community partners?

Ongoing Monitoring of Data and Data Use

- How is the data reviewed throughout the year? Does the data show progress towards expected goals?
- Are course corrections necessary? Why? What is the data telling you that you did not expect?
- Is the data reviewed showing sustainable outcomes? How do you know?



Data Touch Point #3



According to the data, what areas need attention at Community Connections Head Start?

Assessing Analytic Capacity

Assessing Analytic Capacity

Human Capital: Supporting staff in the use of data

	Never	Occasionally	Regularly
Practices related to professional development			
Professional development opportunities are available to you, other leaders in your programs, and your teaching staff to improve skills in data collection, management, linking, and use.			
Program funds are used to support staff who attend data-related training			
Leaders in your program seek out their own professional development opportunities to improve the linking and use of data in your program.			
Staff receive training about how to talk with families about the use of data and how to meaningfully engage families in decisions about data collection and use.			
Practices related to expertise	Never	Occasionally	Regularly
Your program employs information technology staff with data management, linking, use, and/or general data expertise.			
There is a person (e.g., consultant) or organization (e.g., university) available to help your program manage, use, and understand the data collected.			
Staff are supported in data analysis with opportunities for practice and reflection.			

Uniform Guidance on Planning

Wish Lists X eCFR — Code of Federal Regulations X Facilities Guidance | ECLKC X geoffrey canada net worth - X +

Government Publishing Office (US) | https://www.ecfr.gov/cgi-bin/text-idx?node=pt45.1.75#_top Search

About GPO | Newsroom/Media | Congressional Relations | Inspector General | Careers | Contact | askGPO | Help

GPO U.S. GOVERNMENT PUBLISHING OFFICE | Keeping America Informed

Home | Customers | Vendors | Libraries

FDsys:
GPO's Federal Digital System
About FDsys
Search Government Publications
Browse Government Publications

e-CFR Navigation Aids

Browse / Search Previous

- Browse
- Simple Search
- Advanced Search
 - Boolean
 - Proximity
- Search History
- Search Tips
- Corrections
- Latest Updates
- User Info
- FAQs
- Agency List
- Incorporation By Reference

Related Resources

ELECTRONIC CODE OF FEDERAL REGULATIONS

View past updates to the e-CFR.
Click here to learn more.

e-CFR data is current as of August 7, 2017

[Title 45](#) → [Subtitle A](#) → [Subchapter A](#) → [Part 75](#)

[Browse Previous](#) | [Browse Next](#)

Title 45: Public Welfare

PART 75—UNIFORM ADMINISTRATIVE REQUIREMENTS, COST PRINCIPLES, AND AUDIT REQUIREMENTS FOR HHS AWARDS

Contents

Subpart A—Acronyms and Definitions

§75.1 Acronyms.
§75.2 Definitions.

Subpart B—General Provisions

§75.100 Purpose.



Results-Based Accountability™



Trying Hard Is Not Good Enough – Mark Friedman

Rely on Your Community Assessment



[illegible]

Data-Informed Budgeting

The image displays a collection of mathematical tables, primarily multiplication and division tables, arranged in a grid-like pattern. The tables are color-coded with blue and white cells, and some are tilted at an angle.

Visible tables include:

- A multiplication table with columns labeled 451, 368, 164, 94, 166, 172.
- A multiplication table with columns labeled 45, 73, 83, 74, 29, 10.
- A multiplication table with columns labeled 54, 91, 85, 40, 78, 49.
- A multiplication table with columns labeled 10, 30, 62, 49, 32, 31.
- A multiplication table with columns labeled 340, 301, 336, 293, 317.
- A multiplication table with columns labeled 232, 377, 431, 411, 451.
- A multiplication table with columns labeled 430, 451, 357, 439, 184.
- A multiplication table with columns labeled 182, 139, 144, 235, 181.
- A multiplication table with columns labeled 433, 896, 2.132.
- A multiplication table with columns labeled .870, 2.845, 1.001.
- A multiplication table with columns labeled 2.427, 1.133, 1.308.
- A multiplication table with columns labeled 2.424, 2.697, 1.710.
- A multiplication table with columns labeled 1.692, 1.844, 1.725.
- A multiplication table with columns labeled 1.199, 1.903, 1.442.
- A multiplication table with columns labeled 2.032, 1.198, 2.453.
- A multiplication table with columns labeled 2.390, 3.850, 2.175, 1.389, 2.833, 3.928.
- A multiplication table with columns labeled 1.920, 1.748, 2.387, 2.930, 1.389, 1.253.
- A multiplication table with columns labeled 3.928, 3.176, 2.514, 2.635, 2.119, 1.573.
- A multiplication table with columns labeled 1.287, 1.272, 2.303, 2.735, 2.115, 2.001.
- A multiplication table with columns labeled 2.110, 1.928, 1.902, 1.821, 2.735, 2.253.
- A multiplication table with columns labeled 3.292, 3.393, 2.990, 2.117, 2.517, 2.391.
- A multiplication table with columns labeled 1.272, 1.828, 1.857, 2.115, 2.815, 3.885.
- A multiplication table with columns labeled 110, 893, 272, 725, 138, 885.
- A multiplication table with columns labeled 839, 494, 745, 458, 538.
- A multiplication table with columns labeled 745, 624, 138, 885.
- A multiplication table with columns labeled 835, 138, 885.
- A multiplication table with columns labeled 1.938.
- A multiplication table with columns labeled 290, 92, 268.
- A multiplication table with columns labeled 243, 430, 158.
- A multiplication table with columns labeled 249, 277, 324.
- A multiplication table with columns labeled 309, 304.
- A multiplication table with columns labeled 2.402.
- A multiplication table with columns labeled 1.988.

- Analyze historical expense data
- Project changes, increases, and additions
- Align with program goals

Put Your Money Where Your Mouth Is...



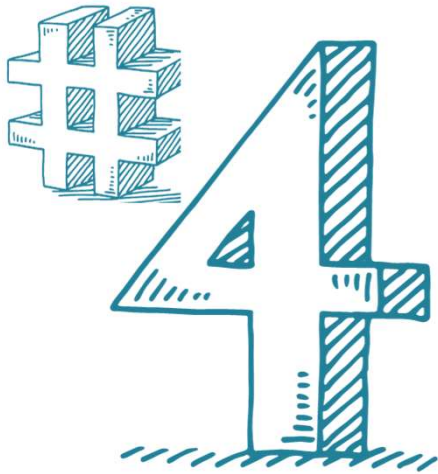
Three Core Questions?



- How much did we spend?
- How much did we do?
- How much did it matter?

Using Data for Action and Impact, Jim Fruchterman, Stanford Social Innovation Review, Summer 2016

Data Touch Point #4



- What are the connections between the data and the areas needing attention?
- What is the relationship between the data and the areas needing attention?
- Craft a BROAD goal and 2–3 objectives from these connections

Supporting Grantees

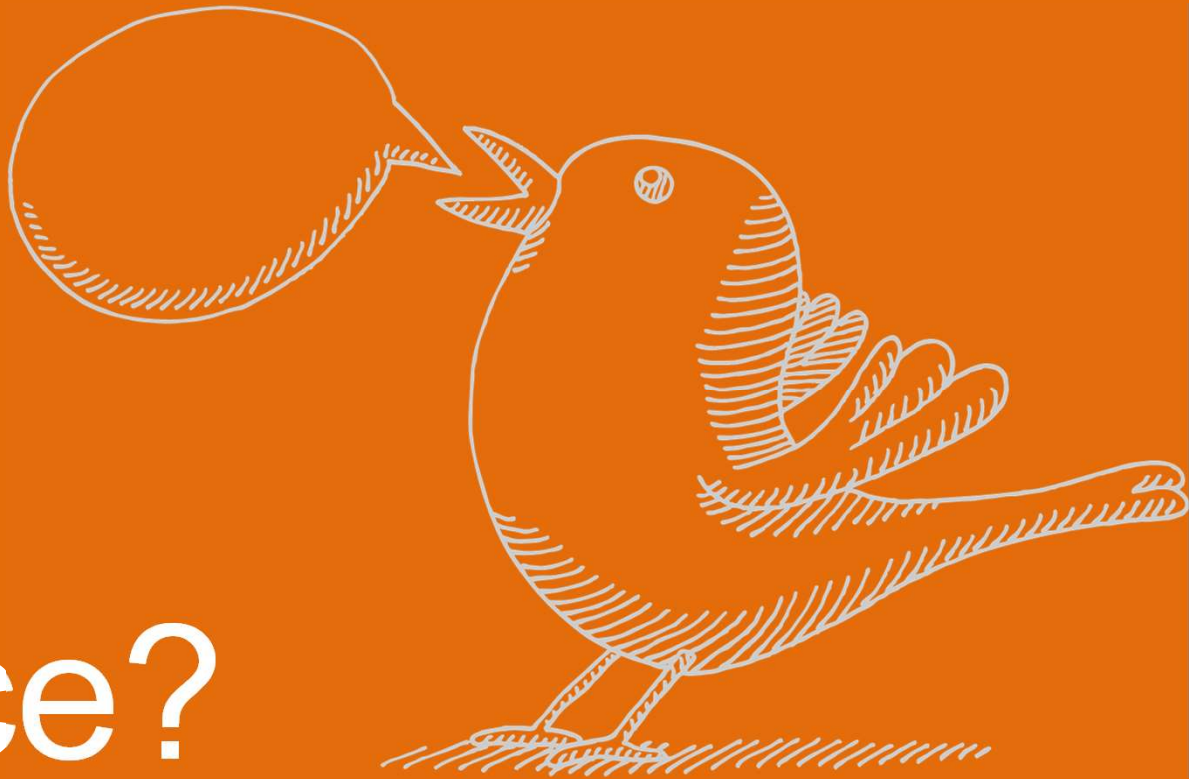
- Do grantees know what success looks like?
- Do they know what should be at the end of the road?
- Do grantees have a road map to get there?
- Is the technology “vehicle” running smoothly?
- What does the data show?
- Are grantees monitoring a “dashboard”?
- Is everyone on board?
- Are all stakeholders involved as effectively and efficiently as possible?

Reflect on Analytic Capacity

Describe the strengths in your program in the area of analytic capacity?

What can be done to improve your program's ability to analyze data?

What Is Your Story
and
What
Is the
Evidence?



Data visualization can:



emphasize key points



provide context



engage the audience

Ways to use data visualizations effectively:

- Analyze and make decisions
- Discover and identify
- Tell or support a story
- Inform or teach

DaSy Resource



Mission

The Center for IDEA Early Childhood Data Systems (DaSy Center), funded by the U.S. Department of Education's Office of Special Education Programs (OSEP), provides technical assistance (TA) to states to support Part C and Part B preschool state programs' participation in the development or enhancement of integrated early childhood data systems..... <http://dasycenter.org/>

Web-Based Data Tools

data
BASIC.io

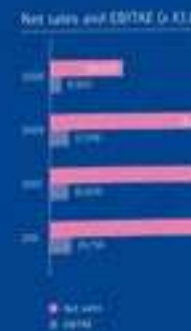


Your Annual Report



	2011	2010	2009	2008
Expenses (profit and loss account)				
Net sales (x €1,000)	196,684	193,719	194,313	165,519
Expenses	30,009	29,052	28,880	25,408
%	15%	15%	15%	15%
GROSS	166,675	164,667	165,433	140,111
%	85%	85%	85%	85%

	31-12-2011	31-12-2010	31-12-2009
Key figures balance sheet			
Total assets	200,000	192,400	175,100
Group equity	44,232	34,888	26,823
Tangible fixed assets	5,473	1,038	5,956
Intangible fixed assets	128,128	189,362	163,144



The 2012 unemployment rate nationwide for those with a college degree was 3.5%. According to some economists, we've essentially reached full employment for those with college degrees. For those with "in-demand" advanced credentials – CPAs and MBAs – unemployment is even lower.

These trends confirm what we've witnessed in our daily work with clients as they continue to seek high caliber professionals to join their teams to deal with increased compliance requirements and business expansion. Nearly 90% of our candidates have advanced degrees and credentials, as well as Big Four and Fortune 500 experience.

"HIGH-DEMAND" ROLES IN ACCOUNTING & FINANCE:

ACCOUNTANTS

We are seeing the highest demand for accountants at the senior accountant and accounting manager level. Demand is especially high for professionals with a CPA license and 2+ years of experience.

CONTROLLERS

This continues to be the crucial role for expanding companies. The increase in auditing and compliance requirements make this a key management role.

IT AUDITORS

With the increased overlap of technology, process, finance and accounting, IT Auditors have seen demand increase exponentially. The key to advancement in the CPA designation.

AUDITORS

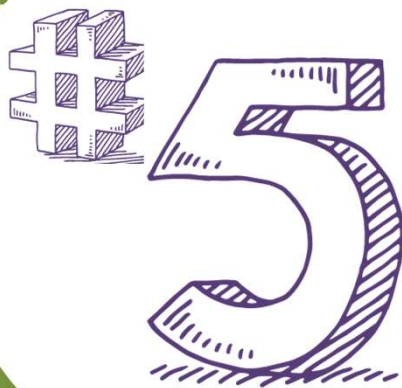
Demand for internal auditors remains strong in private industry as companies deal with increased regulatory and compliance requirements. The demand for auditors at CPA firms has expanded dramatically as these firms respond to increased client activity. The CPA designation remains the most "in demand" in the audit profession.



The Importance of Data in Measuring the Impact



Planning for Impact/Data Touch Point #5



Identify the data (evidence) you will need to monitor goal progress and achievement and impact of services

Planning for Impact

A hand-drawn illustration in green ink on a light blue background. It shows a winding path that leads towards a sign that says 'SUCCESS'. The sign is arched and has a sun-like shape behind it. The path is flanked by stylized bushes and clouds. The overall style is simple and illustrative.

Forecast the desired result.

Determine data needed to monitor success.

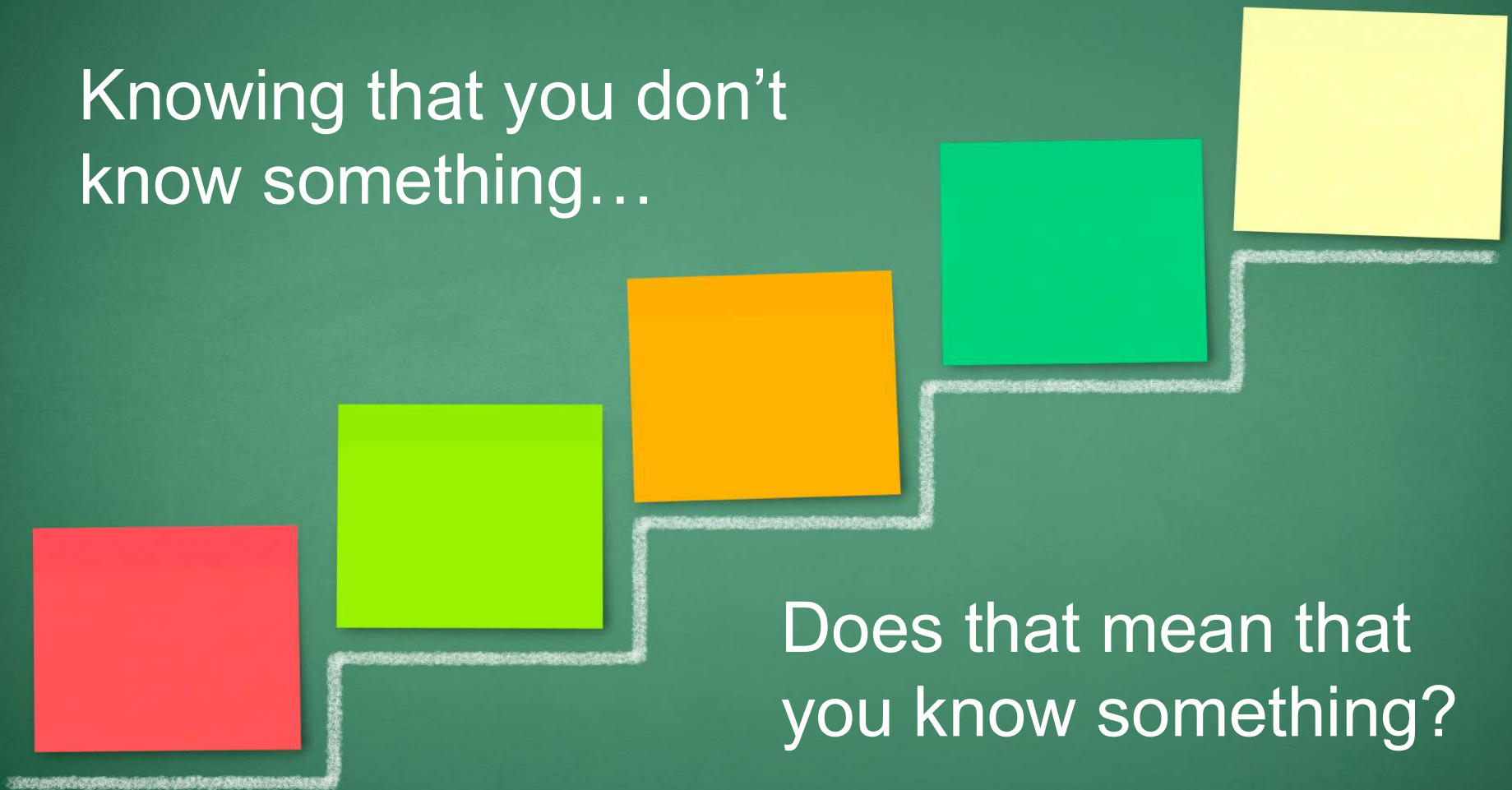
Describe what progress will look like.



Putting It Together and Taking It Home

What Are the Next Steps in Your Data Journey?

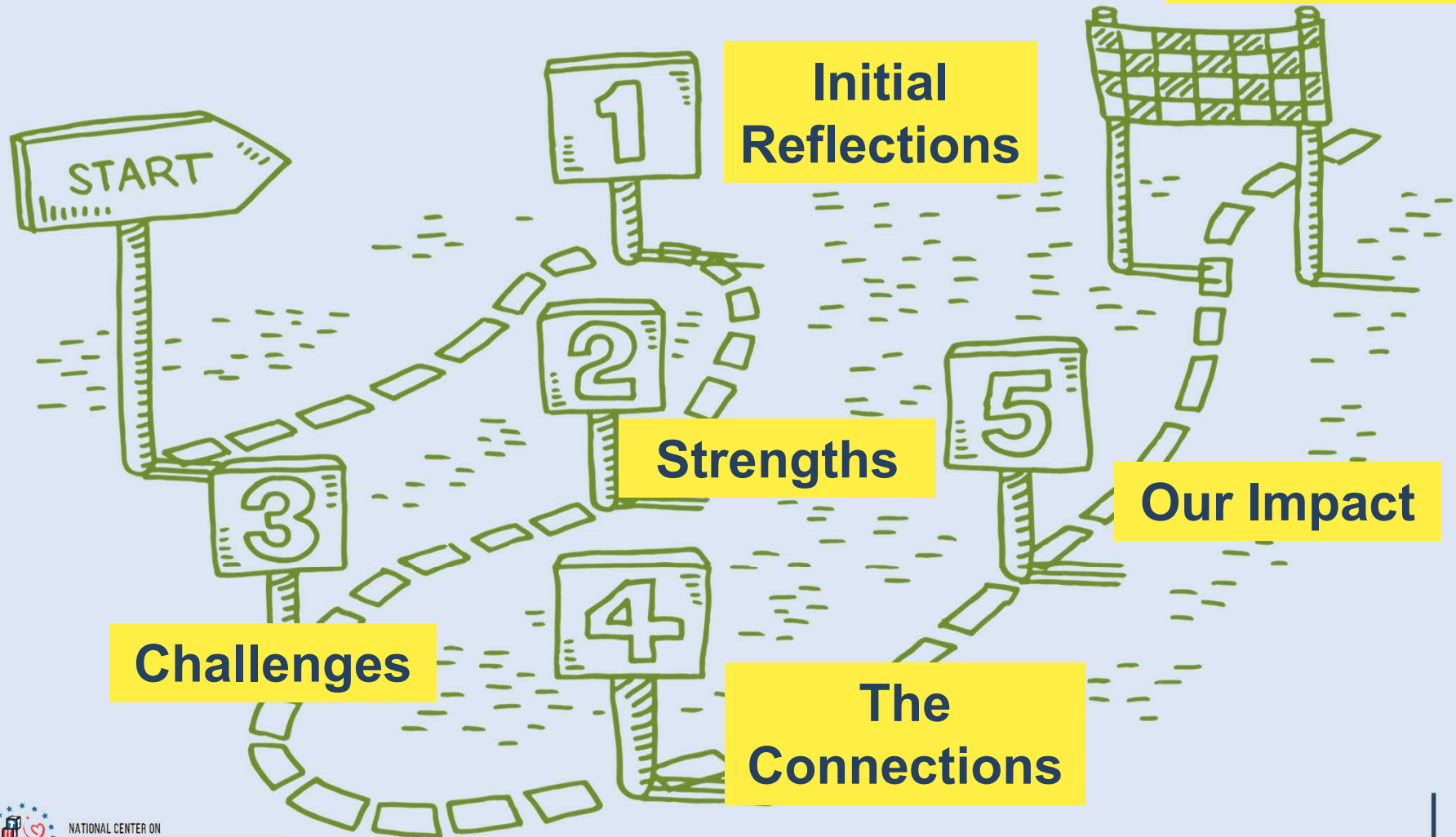
Knowing that you don't
know something...



Going From Data to Story

Touching the Data at Multiple Points

The Story



Data Touch Point #6

Data Sculpture Activity



- Collect office supplies such as sticky notes, markers, tape, paper
- Select 2–3 Community Connection charts
- Find a story to tell
- Build a quick sculpture

Data Sculpture Video



Here is an example

<https://www.youtube.com/watch?v=Y3mwJi5kFLc>

Building a Data Culture

Goal: _____

SMART Objective: _____

Expected Outcome: _____

Action / Strategy	Person (s) Responsible	Timelines	Data Source(s)	Status

We Made It!



You took the risk
You made it happen

You are leaving a little richer because of the
time you spent at Data Boot Camp

Contact PMFO



pmfo@ecetta.info



[https://eclkc.ohs.acf.hhs.gov/
hslc/tta-system/operations](https://eclkc.ohs.acf.hhs.gov/hslc/tta-system/operations)



Call us: 888.874.5469



ADMINISTRATION FOR
CHILDREN & FAMILIES



NATIONAL CENTER ON
Program Management and Fiscal Operations