

# HUDK 4050: CORE METHODS IN EDM

# In the news



Edtech CEOs Seek to Change the 'Adversarial Narrative' With Public School Teachers



Forbes Called This Startup Queen 'The Next Steve Jobs' and Her Receipts Will Blow You Away



How artificial intelligence is transforming learning  
An inside look into how AI is disrupting concepts of learning.



Dear Teachers: Don't Be Good Soldiers For The EdTech Industry

Is Ed Tech Really Working? 5 Core Tenets to Rethink How We Buy, Use, and Measure New Tools



MIT Technology Review

Biased Algorithms Are Everywhere, and No One Seems to Care

4 Ways Technology Is Reshaping Athletics



Google Extends Digital Literacy Training to Teachers

Bipartisan Report Advocates Use of Data to Improve Government, Including Education



Possibly Elon Musk's Biggest Idea Yet - Revolutionizing Education



The smart city is paying dividends for school districts

# Events

| Event  | Date            | Time    | Location                                      | URL   |
|--|-----------------|---------|---|---|
| Meetup: Learn about xAPI & Discuss Implementations | November 8      | 6:30pm  | Build NY<br>335 Madison Ave                   |   |
| PDN Photoplus (VR conference)                      | October 27-28   | all day | Javits Center                                 | <a href="https://registration.experientevent.com/ShowPPE171/Flow/attendee#/registrant//Profile/">https://registration.experientevent.com/ShowPPE171/Flow/attendee#/registrant//Profile/</a>   |
| NYC 311 Data Jam                                   | September 23    | all day | Rise NYC<br>Times Square                      | <a href="https://www.meetup.com/betanyc/events/242794995/?gj=wc1d.2_e&amp;rv=wc1d.2_e&amp;af=event&amp;af_eid=242794995&amp;https=on">https://www.meetup.com/betanyc/events/242794995/?gj=wc1d.2_e&amp;rv=wc1d.2_e&amp;af=event&amp;af_eid=242794995&amp;https=on</a>   |
| NY Media Festival                                  | September 26-27 | all day | Museum of Jewish Heritage<br>36 Battery Place | <a href="https://www.eventbrite.com/e/new-york-media-festival-nyme-2017-tickets-31846042370">https://www.eventbrite.com/e/new-york-media-festival-nyme-2017-tickets-31846042370</a>   |
| EmpowerTheUser Breakfast                           | September 28    | 8:00am  | Irish Consulate                               | <a href="https://www.meetup.com/New-York-Risk-Meetup/?gj=ej1b">https://www.meetup.com/New-York-Risk-Meetup/?gj=ej1b</a>   |
| Intro to Shiny Webinar                             | September 27    | 11:00am | Online  | <a href="https://pages.rstudio.net/September27_Registration.html?mkt_tok=eyJpIjoiTXpZd01ESXpabVE1TkdKayIsInQiOiJxN0VidHluWXg4NXI1cWdWWWQ3RlV5MWNVbGp5TmR5ZjhGMkV3SWFaWVhQZ1ZYVUk0a1d4anVyK2RKSVViT2hnMEhNNDFXXC9tazJGZmU2RkVIODNyMW8xcVowZ1BzV2swSndld2gzOTdkQWdYc2ZNVWQxZXVRYVZxcXhGUDI6RFUifQ%3D%3D">https://pages.rstudio.net/September27_Registration.html?mkt_tok=eyJpIjoiTXpZd01ESXpabVE1TkdKayIsInQiOiJxN0VidHluWXg4NXI1cWdWWWQ3RlV5MWNVbGp5TmR5ZjhGMkV3SWFaWVhQZ1ZYVUk0a1d4anVyK2RKSVViT2hnMEhNNDFXXC9tazJGZmU2RkVIODNyMW8xcVowZ1BzV2swSndld2gzOTdkQWdYc2ZNVWQxZXVRYVZxcXhGUDI6RFUifQ%3D%3D</a> |
| Using Data for Good: What does it mean?            | September 20    | 4:30pm  | 301 Uris Hall                                 | <a href="https://www.facebook.com/events/470704289982561/">https://www.facebook.com/events/470704289982561/</a>   |

# Opportunities

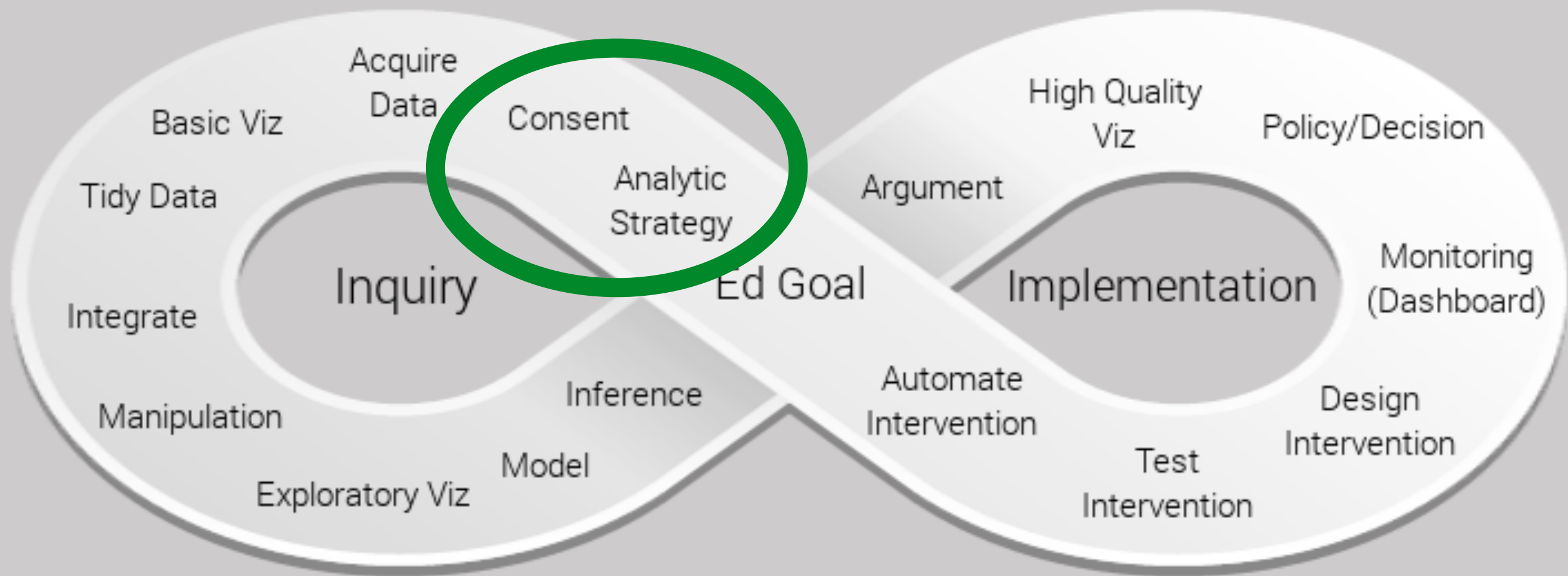
**Data Specialist**  
**Early Education and Care, Massachusetts**

[https://gallery.mailchimp.com/2ea8fefbe3e29756b11e651e9/files/cc0b6510-e9ef-4863-a8e7-dc9a508e711f/Job\\_Description\\_Data\\_Specialist\\_170004F7\\_.pdf](https://gallery.mailchimp.com/2ea8fefbe3e29756b11e651e9/files/cc0b6510-e9ef-4863-a8e7-dc9a508e711f/Job_Description_Data_Specialist_170004F7_.pdf)

# Thursday Class

- I have to talk to the media
- Mostly do activities today
- I will record the lecture for you to listen to
- Troubleshooting on Friday 1-2:30pm

# Ed Data Science Cycle



# Code of Ethics

- There have been several Learning Analytics Codes of Ethics drawn up for institutions:
  - Open University
  - JISC
  - American Library Association

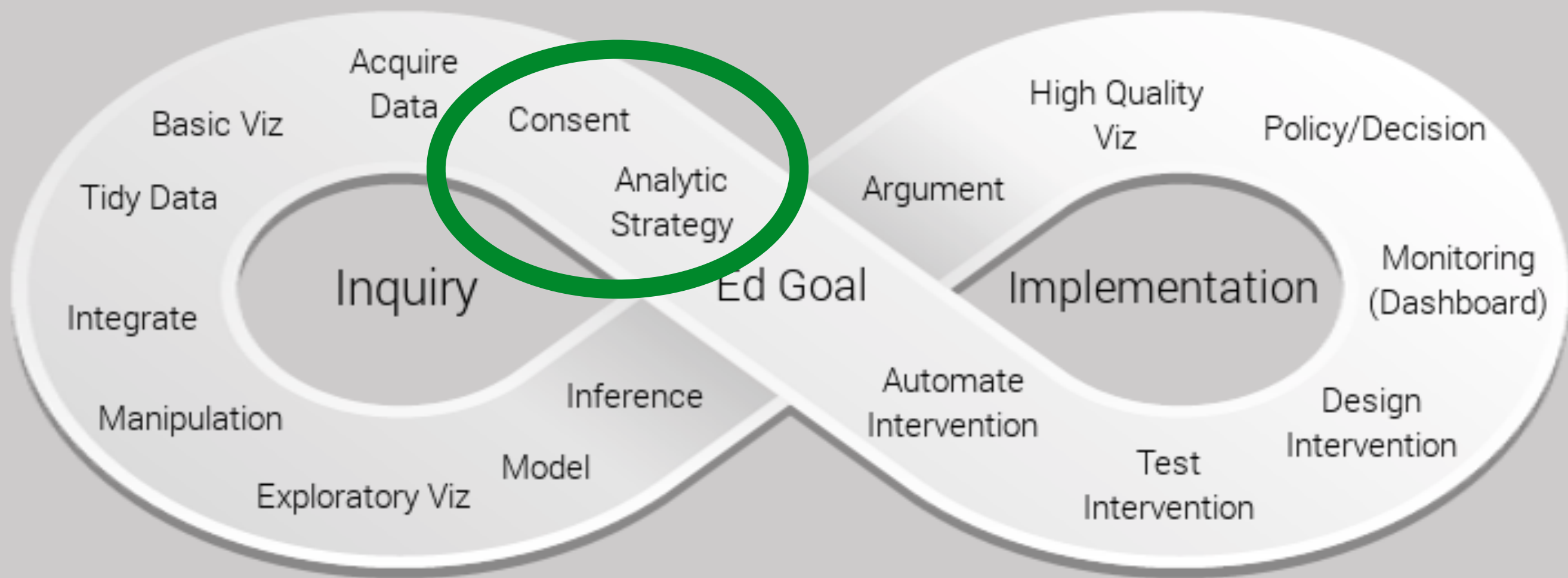
|          |   |
|----------|---|
| <b>D</b> | <b>DETERMINATION</b> – Why you want to apply Learning Analytics? <ul style="list-style-type: none"> <li>▶ What is the added value (Organisational and data subjects)?</li> <li>▶ What are the rights of the data subjects (e.g., EU Directive 95/46/EC)</li> </ul>  |
| <b>E</b> | <b>EXPLAIN</b> – Be open about your intentions and objectives <ul style="list-style-type: none"> <li>▶ What data will be collected for which purpose?</li> <li>▶ How long will this data be stored?</li> <li>▶ Who has access to the data?</li> </ul>   |
| <b>L</b> | <b>LEGITIMATE</b> – Why you are allowed to have the data? <ul style="list-style-type: none"> <li>▶ Which data sources you have already (aren't they enough)?</li> <li>▶ Why are you allowed to collect additional data?</li> </ul>  |
| <b>I</b> | <b>INVOLVE</b> – Involve all stakeholders and the data subjects <ul style="list-style-type: none"> <li>▶ Be open about privacy concerns (of data subjects)</li> <li>▶ Provide access to the personal data collected (about the data subjects)</li> <li>▶ Training and qualification of staff</li> </ul>   |
| <b>C</b> | <b>CONSENT</b> – Make a contract with the data subjects <ul style="list-style-type: none"> <li>▶ Ask for a consent from the data subjects before the data collection</li> <li>▶ Define clear and understandable consent questions (Yes / No options)</li> <li>▶ Offer the possibility to opt-out of the data collection without consequences</li> </ul> |
| <b>A</b> | <b>ANONYMISE</b> – Make the individual not retrievable <ul style="list-style-type: none"> <li>▶ Anonymise the data as far as possible</li> <li>▶ Aggregate data to generate abstract metadata models (Those do not fall under EU Directive 95/46/EC)</li> </ul>   |
| <b>T</b> | <b>TECHNICAL</b> – Procedures to guarantee privacy <ul style="list-style-type: none"> <li>▶ Monitor regularly who has access to the data</li> <li>▶ If the analytics change, update the privacy regulations (new consent needed)</li> <li>▶ Make sure the data storage fulfills international security standards</li> </ul>                             |
| <b>E</b> | <b>EXTERNAL</b> – If you work with external providers <ul style="list-style-type: none"> <li>▶ Make sure they also fulfil the national and organisational rules</li> <li>▶ Sign a contract that clearly states responsibilities for data security</li> <li>▶ Data should only be used for the intended services and no other purposes</li> </ul>        |



# Anonymous Code of Ethics Survey

<http://bit.ly/2w3GR51>

# Ed Data Science Cycle



# Analytic Strategy

- Educational goal = “learn R”, “knowledge of learning analytics”
- Analytic strategy?
- Consent?

# Entrance Survey

<http://bit.ly/2f70hxm>