

# DATA DRIVEN CRIMINAL JUSTICE TRAINING

**GOVLAB'S COACHING PROGRAMS SURVEY RESPONSES OVERVIEW**

## THE DATA DRIVEN CRIMINAL JUSTICE TRAINING

The GovLab is an action-research center dedicated to improving people's lives by changing how we govern using new technologies.

The Laura and John Arnold Foundation has partnered with the GovLab to offer a training program beginning this autumn geared to practitioners working on data-driven criminal justice innovation.

The training goal is to build Data Science related skills and offer coaching to help participants projects succeed.

The training is aimed at helping innovators within government, to take your public interest project from idea to implementation.

In order to effectively design and custom the training the GovLab has delivered a survey to the potential training participants.

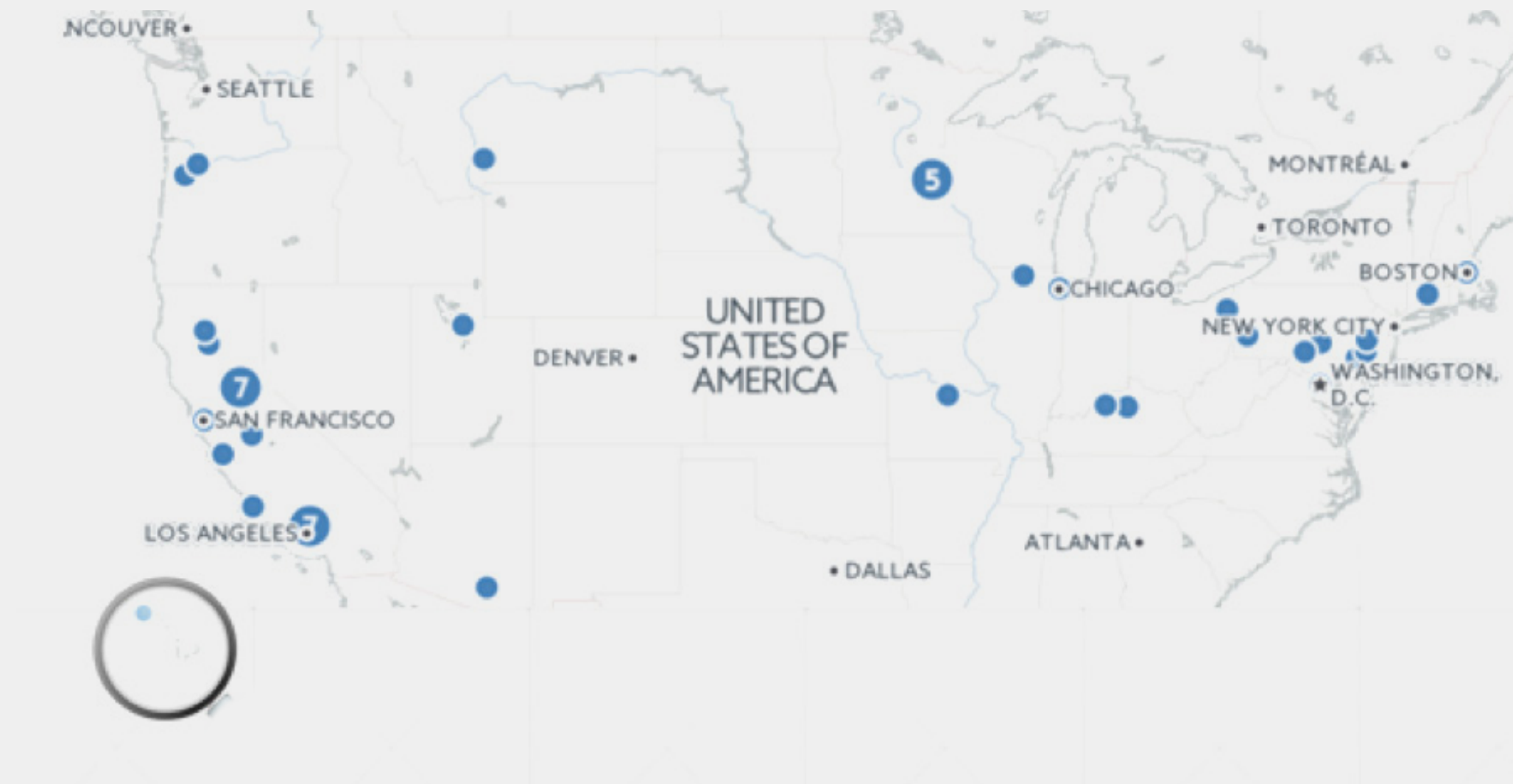
The following slides detail and summarize the demographics and participant's inputs and suggest next steps for training design.

## SURVEY GROUP

**57** participants, **55** different organizations

Diverse positions in the organizations (mostly managers and/or executives)

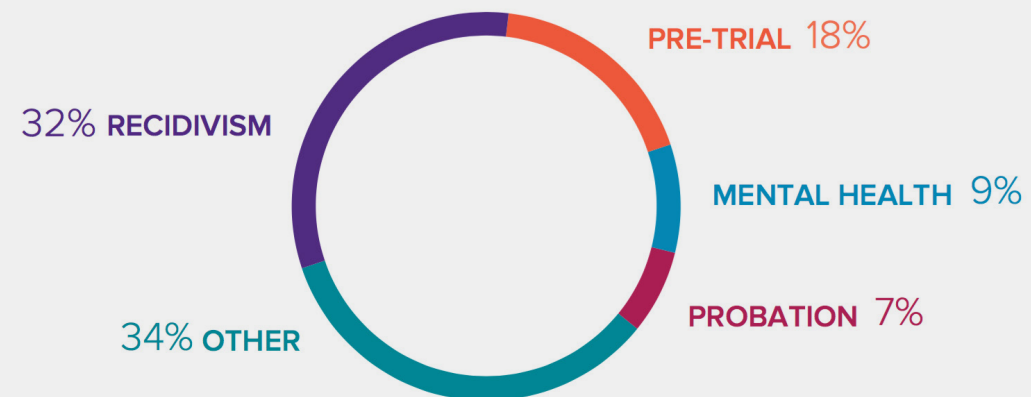
Various projects and solutions (see Annex for examples)



# PARTICIPANTS PROJECTS TAXONOMY

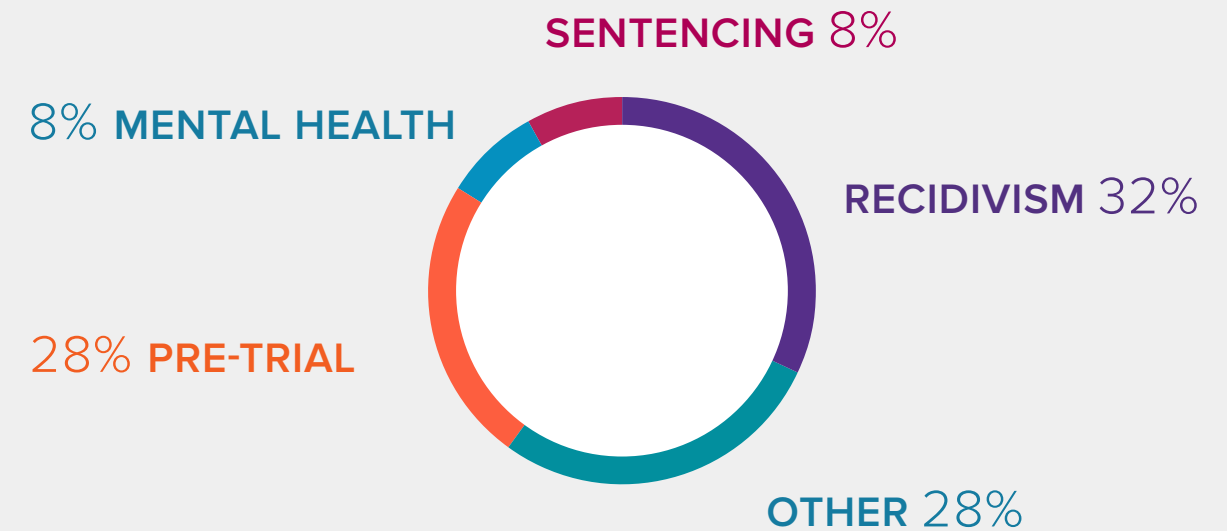
A Wide Variety of Data Storage Practices - Data anonymization practices by CJCC agencies

Among all survey participants who filled the project field (45 records)



Other include: bail, coordinating stakeholders, data integration, diversion, health, jail alternatives, juvenile, racial disparities, reducing CJ costs, Sentencing, substance abuse, Witness intimidation

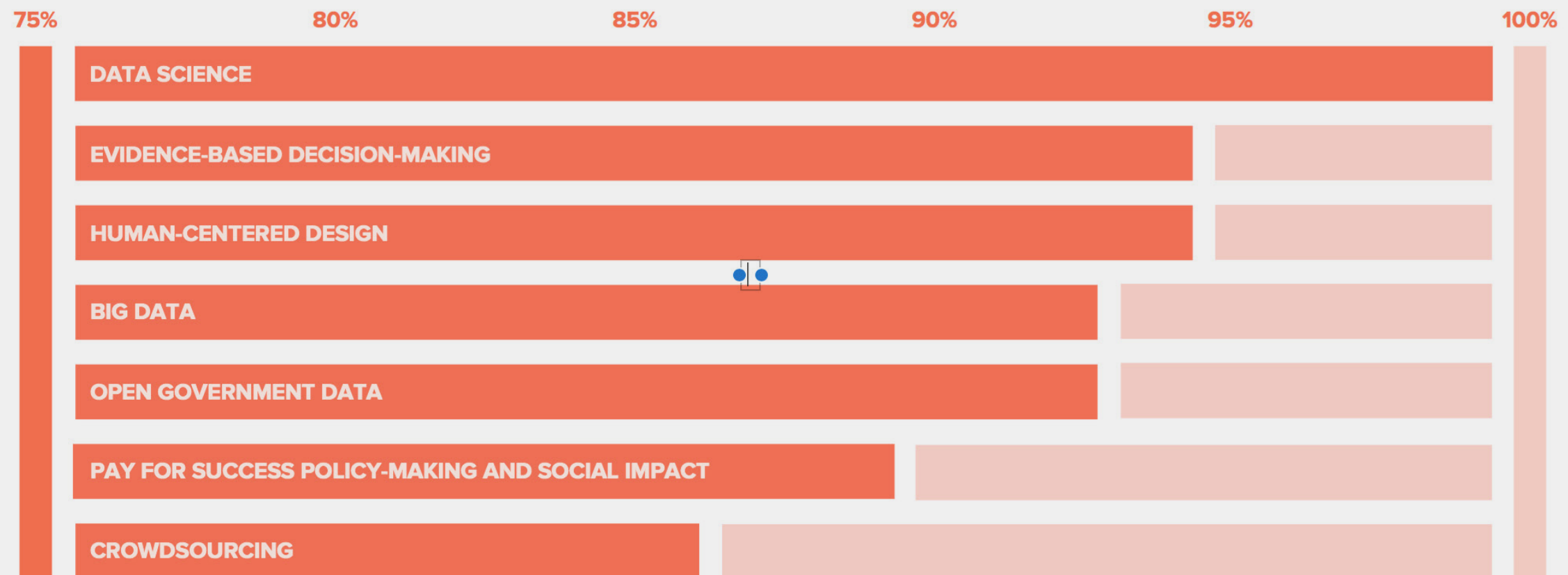
Among the participants who stated the want to have a personalized coaching program and have a project (26 records)



Other include: bail, data integration, diversion, jail alternatives, mental health, racial disparities, reducing CJ costs, Sentencing, Witness intimidation

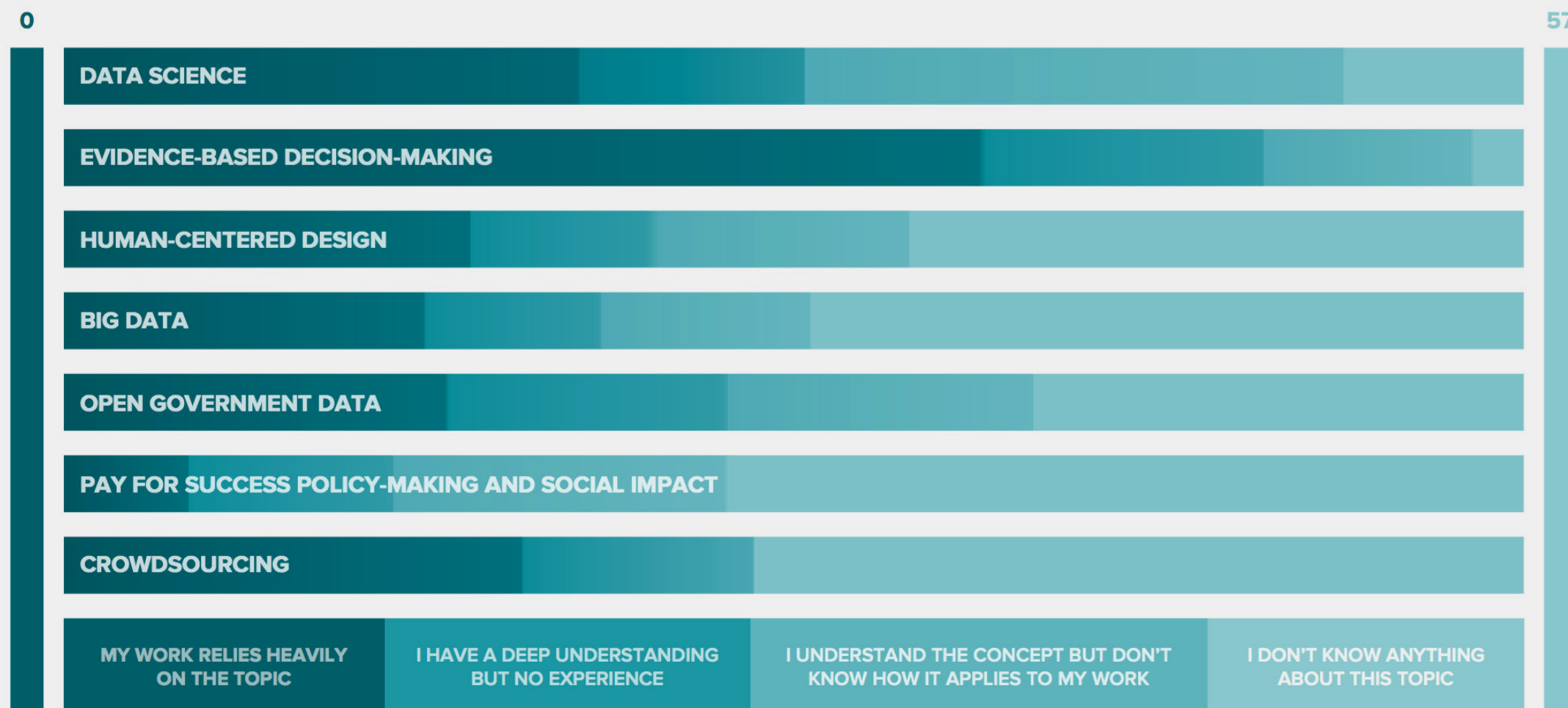
# TRAINING DEMAND AND DIVERSITY OF BACKGROUND

## INTEREST IN LEARNING MORE BY TOPIC



# TRAINING DEMAND AND DIVERSITY OF BACKGROUND

## PRIOR KNOWLEDGE AND EXPERIENCE



## TRAINING DEMAND AND DIVERSITY OF BACKGROUND

### BOTTOM LINES

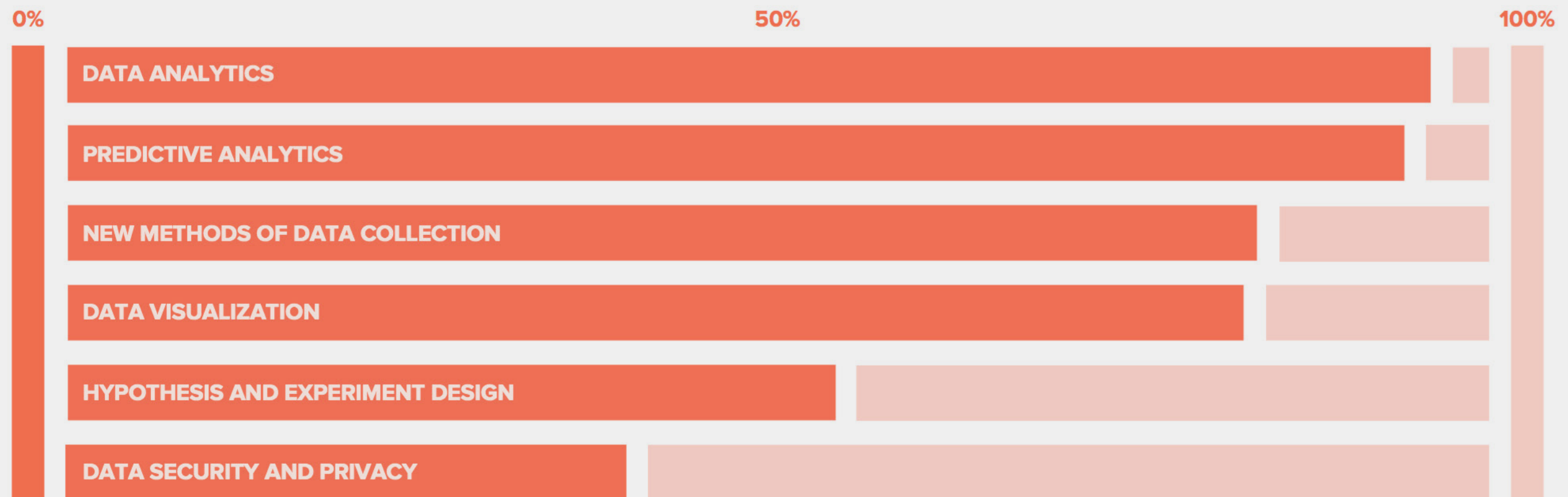
High demand for all offered training subjects.

Data Science and Evidence-based decision-making are subjects where most participants have prior knowledge thus training should focus on practical tools

Other Subjects have at least 50% who do not know anything or know little about the subject thus need to focus on concept before working on practical tools.

## DEMAND FOR SKILL BUILDING

The following chart represents summary of survey replies to the question: Of these data science skill-building workshops listed below, which would you be interested in taking? Please select all that apply





## PERSONALIZED COACHING PROGRAMS

**46%** of survey participants stated they'd be interested in enrolling in a personalized project Coaching Program (see Annex E for their project list)

**GovLab's coaching programs** are geared to the purpose-driven participant afjwriting@gmail.compassionate about a public problem and already undertaking a project.

**26%** of survey participants stated they have a data science or criminal justice

expert in mind whom they'd want to invite to participate as a coach (see Annex A for experts names)

The Coaching programs are designed to help participants develop a project **from idea to implementation**, and offer frequent and constructive feedback, customized and original learning materials, peer-to-peer support, introductions to global topic experts and Faculty and staff online office hours with the teams to address project progress.

## CONCLUSION

Most of potential participants come from different geographic locations thus an online program would be the most effective method to address most participants needs.

The groups are geographically divided into three: east coast (mostly in Boston-NY-DC), west coast (mostly in California) and the third group is scattered around the other US regions (including Hawaii).

There is a high demand for all Data Science offered subjects.

For most of the subjects offered the participants are diverse in terms of prior knowledge and experience, thus some of the subjects' trainings should focus on the concept level and some go deeper and give practical tools.

Around half of the survey participants have a project and would like to have a personalized coaching program and get help executing it.

## NEXT STEPS

Design training curriculum subjects according responses inputs, including highly demanded subjects and skill building workshops and excluding skill building workshops with lower demand.

Pedagogically differentiate between the subjects to be more concept-focused and the ones to be more practical tools driven.

Match experts and coaches with projects of the participants stated they'd like a personalized coaching program.

Approach suggested coaches and experts to join the trainings.

## ANNEXES

- A - Criminal justice experts recommended by survey participants
- B - Survey participants positions in their organizations
- C - Suggested projects of Survey participants who asked for personalized coaching
- D - Suggested projects of All participants
- E - Survey participants targeted solutions
- F - Survey's Questions
- G - Participant's organizations list

## ANNEX A

### CRIMINAL JUSTICE EXPERTS RECOMMENDED BY SURVEY PARTICIPANTS

Dr. Allen Beck (abeck@justiceconcepts.com)

Damon Preston (Damon.Preston@ky.gov)

Dr. Rebecca Neustatter

Preeti Chauhan

Tom O'Conr

Jennifer Loeffler-Cobia (jloefflercobia@air.org)

Roger Przybylski

Tim Dibble

Neal Kauder

Dr.Ed Latessa

David Kennedy (John Jay College)

Madeline Carter (The Carey Group)

Jeremy Travis

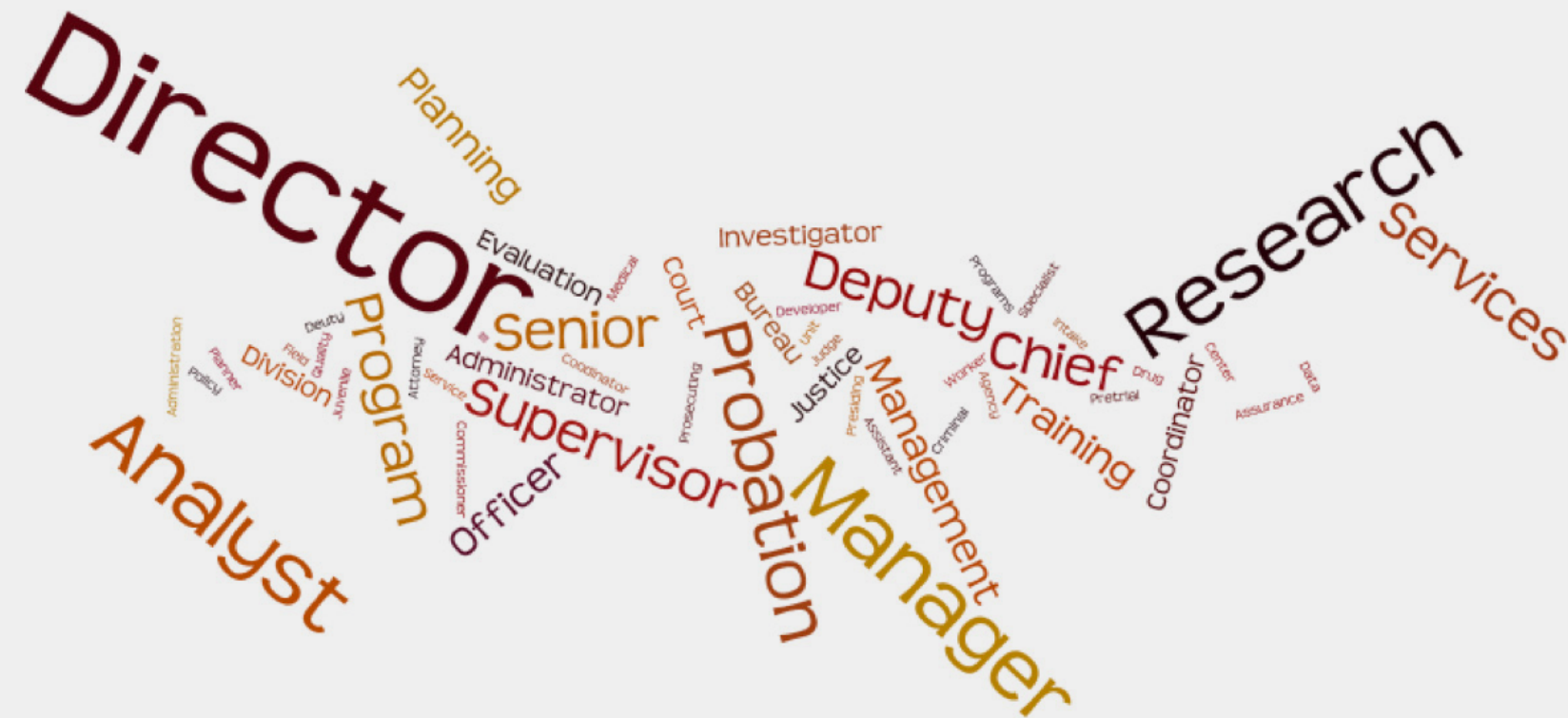
Jonathan P Caulkins

Al Blumstein

Dr. Marie Vanstrand

## ANNEX B

## WHAT IS YOUR POSITION WITHIN THE ORGANIZATION?



## ANNEX B

### WHAT IS YOUR POSITION WITHIN THE ORGANIZATION? (AS LIST)

Management Analyst III

Pretrial Supervisor. Program Developer

Data Analyst

Senior Policy Analyst

Justice Programs Coordinator

Director

Training Director

Management Analyst

Research and Evaluation Manager

Agency Director

Senior Research and Evaluation Analyst

Court Services Worker

Criminal Justice Planning Specialist

Deputy Director

Medical Director

Training Coordinator

Bureau Chief Quality Services Assurance Bureau

Intake Service Center Administrator

Presiding Judge

Field Services Administrator

Planner

Drug Court Coordinator

Supervisor

Senior Investigator

Assistant Probation Officer

Probation Program Manager

Director of Research

Deputy Chief Probation Officer - Juvenile Division

Program Manager

Manager

Deputy Chief

Deputy Chief Probation Officer

Training Supervisor

Commissioner

Senior Investigator

Director of Planning & Research

Director of Research and Planning

Management Analyst

Division Manager

Deputy Prosecuting Attorney

Probation Services Manager

Administration

Director

Program Unit Supervisor

Research Director

## ANNEX C

### Suggested projects of Survey participants who asked for personalized coaching

- Educate, train criminal justice system, use data, increase collaborations in the state;
- Evaluating problem solving courts, trying to develop dashboards and tools for probation officers, matching pretrial risk assessment with pretrial release recommendations;
- Intoxicated Driver Improvement Program, Diversion;
- Multi-jurisdictional drug task forces;
- Witness intimidation;
- Medication assisted therapy;
- Sentencing;
- Reduction in delinquency ;
- HOPE Pretrial;
- Pretrial Justice, Smart Sentencing, Evidence-Based Decision Making;
- supervision of probationers;
- Risk Assessment;
- Jail Outreach;
- Recidivism;
- Reduce Recidivism, Appropriate Caseload Ratios;
- reset core probation supervision work;
- Criminal Case Flow Management, Develop Sentencing Guidelines, Specialty Court Implementation, Diversity Task Force;
- Pretrial Services and Collaborative Courts;
- Continuous Improvement Process and Annual Reports;
- Trying to develop a way to track programing and results impove services to reduce recidivism., Track and measure dosage of programing, Track probation supervision term;
- Sentence inflation;
- Pretrial monitoring, with domestic violence supervision, with drug testing;
- Criminal justice population modeling, cost-benefit analysis, criminal justice resource use, data integration, fiscal impact analyses;
- Program evaluation, on reducing recidivism;
- Making bail decisions;
- Trying to develop program evaluation that provides measurable results for determining which programs are more successful at reducing recidivism;
- Develop better analysis and accurate statistical data to reflect case management, to develop analysis and understanding , to develop an algorithm that can measure the rate of success (clients who do not commit a crime after completion of probation) short and long term;
- I'm trying make sure the right people stay in jail pretrial;
- Data Integration/Data Warehouse;



## ANNEX D

## Suggested Projects (all survey participants)



## ANNEX D

### Suggested Projects (all survey participants - as list)

Cost benefit analysis

Pretrial Services

Educate, train criminal justice system, use data, increase collaborations in the state

Increasing the quality of pretrial release advocacy

Evaluating problem solving courts, trying to develop dashboards and tools for probation officers, matching pretrial risk assessment with pretrial release recommendations

Dual Diagnosis and community Addiction, detox and Tx  
SIB Harvard Kennedy SIB Lab

Developing a jail capacity forecasting tool

Intoxicated Driver Improvement Program, Diversion

Multi-jurisdictional drug task forces

Witness intimidation

Medication assisted therapy

Sentencing

Reduction in delinquency

HOPE Pretrial

Pretrial Justice, Smart Sentencing, Evidence-Based Decision Making

supervision of probationers

Risk Assessment

Jail Outreach

Move our department in the direction of EBP and data driven outcomes and policy and procedural development

Recidivism

Implementing a needs assessment and case plan at our agency

Within the juvenile division

Trying develop a better mental health screening tool

Reduce Recidivism, Appropriate Caseload Ratios

Developing a training curriculum

Reset core probation supervision work

Justice Reinvestment, Safety and Justice Challenge,  
Safety and Justice Challenge

Criminal Case Flow Management, Develop Sentencing Guidelines, Specialty Court Implementation, Diversity Task Force

Pretrial Services and Collaborative Courts

Continuous Improvement Process and Annual Reports

As legislative liaison between our Department and the State and County legislators

Trying to develop a way to track programing and results improve services to reduce recidivism., Track and measure dosage of programing, Track probation supervision term

Services

Sentence inflation

With pretrial monitoring, with domestic violence supervision, with drug testing

Criminal justice population modeling, cost-benefit analysis, criminal justice resource use, data integration, fiscal impact analyses

## ANNEX E

### Suggested solutions



## ANNEX E

### Problems they are trying to solve

Determine cost benefit model for juvenile justice,

Reduce rate of incarceration and develop best practices.

End stigma of mental illness, to better work with persons with behavioral health disorders, to inform decisions and improvements to criminal justice programs, more effectively use and connect resources

Convince judges to use and trust the pretrial release instrument

What works for what groups to reduce recidivism and produce better outcomes, Allocating limited resources to achieving the best offender outcomes and public safety outcomes, Allocate limited resources to reduce failure to appear,

recidivism and improve public safety

Community supply vs demand. Costs etc

To determine groups of individuals where community treatment may be a better alternative to incarceration.

Reduce recidivism, save jail bed dates, reduce recidivism, provide early intervention

I am trying to link activities/seizures to reduction of overall crime

Improved conviction rates

Impact on recidivism and cost of incarceration

Excessive revocation penalties

Program Effectiveness

Increase Pretrial Success

Increase safe release and better outcomes sooner, reduce imprisonment and reducing recidivism, increase access to and use of proven practices and data in decision making

Statistical validation

Attempting to educate stakeholders about my program. I'm trying to process all inmates arrested for release OR consideration, in attempts to reduce jail overcrowding.

To change our culture to make decisions on how we interact with offenders and meet their needs. Also, show if our efforts are having a positive effect on offenders behavior.



## ANNEX E

### Problems they are trying to solve (cont.)

System for accurate data collection

Increase “buy in” from probation officers and offenders

Reduce the rates of detainees, placements, and recidivism

I’m trying to reduce the overrepresentation of incarcerated mentally ill offenders.

Increase the knowledge base and level of engagement by our staff.

Align supervision strategies with results

To provide rapid system-wide business information, drivers of racial and ethnic over-representation, to provide system indicators of over use of jail beds for mentally ill and low level offenders

Improve pre-trial decision making, Enhance public safety and reduce taxpayer burden, Reduce defendant

mortality and enhance public safety, Reduce unwarranted disparity in the criminal justice system

Implement quality assurance measures to improve program outcomes and regularly share accurate data with criminal justice partners.

Putting conception into practice and making it meaningful

To efficiently convey all of our Department’s needs and challenges to decision-makers, in a manner that is both meaningful and persuasive.

To improve services to reduce recidivism., To determine effective services and needs of youth being serviced, To determine overall success rate

Through the use of data, Determine what services are effective in changing behavior.

Measuring the impact of enhancements and increased penalties on deterrence

To improve the rate offenders appear in court and reduce recidivism. , preict risk in order to improve supervision practices with this population to ultimately reduce recidivism, use drug testing most effectively with offenders in order to reduce recidivism

To accurately predict future caseloads for prison and probation, holding some things constant, while accounting for the dynamic system between the many criminal justice system actors., to provide policymakers with expected future benefits and costs for public spending on different criminal justice programs, to explain the division of costs between federal, state, county, municipal, and nonprofit criminal justice actors., to push the limits on connecting diverse datasets to better explain criminal justice activities., to estimate the dollar impact of proposed sentencing changes within the state.

## ANNEX F

### Survey's Questions (1 of 2)

- What is the name of your organization?
- What is your position within the organization?
- Where are you located?
- Within my work (on project) \_\_\_\_\_, I'm trying (to solve) \_\_\_\_\_. (e.g. Within my work trying to develop a better algorithm to predict recidivism, I'm trying to reduce the rate of incarceration and crime at the same time.)
- How much do you know about data science? Are you interested in learning more?
- How much do you know about evidence-based decision-making? Are you interested in learning more?
- How much do you know about Pay For Success policy-making and social impact? Are you interested in learning more?
- How much do you know about big data? Are you interested in learning more?
- How much do you know about open government data? Are you interested in learning more?
- How much do you know about crowdsourcing? Are you interested in learning more?
- How much do you know about human-centered design? Are you interested in learning more?
- How would knowing more about the innovation topics above be helpful to your work?

## ANNEX F

### Survey's Questions (2 of 2)

- Of these data science skill-building workshops listed below, which would you be interested in taking? Please select all that apply.
  - New methods of data collection (e.g. scraping);
  - Data security and privacy (anonymized data and protected data);
  - Data analytics (using data to uncover trends and occurrences);
  - Predictive analytics (using data to predict future occurrences);
  - Data visualization (creating graphics and charts to help illustrate data and tell a story);
  - Hypothesis and experiment design;
- How would taking any of these data science skill-building workshops be helpful to your work?
- Would you be interested in enrolling in a personalized project Coaching Program?
- Do you have a data science or criminal justice expert in mind whom you think we should invite to participate as a coach?
- Can we contact you if we have additional questions?

## ANNEX G

### Names of Organizations

Alameda County Superior Court	Illinois Center of Excellence for Behavioral Health and Justice	Office of State Courts Administrator	SF Juvenile Probation
Allegheny County Adult Probation and Parole	Illinois Sentencing Policy Advisory Council	Office of the State Public Defender	Shasta County Probation Department
Bureau of Justice Aassistance	Kentucky Department of Public Advocacy	Orange County Probation Department	Solano County Pobation
Connecticut Dept of Correction	Kern County Probation	Pennsylvania Department of Corrections	State of Delaware-Division of Youth Rehabilitative Services
Contra Costa County Probation	Los Angeles County Probation Department	Philadelphia Adult Probation and Parole Department	Stearns County Community Corrections
County of Franklin, Pennsylvania	Louisville Metro Criminal Justice Commission	Pierce Co Dept of Human Services	Sutter County Probation
Court of Common Please of Bucks County, PA	Louisville Metro Dept. of Corrections (local jail)	Pierce County Drug Court	Tehama County Probation
Department of the Attorney General	Massachusetts Probation Service	Pima County Sheriff's Dept.	Tennessee Office of Criminal Justice Programs
Department of the Prosecuting Attorney, City and County of Honolulu	Massachusetts Trial Court	Placer County Probation Department	Trumbull County Family Court
Eau Claire County	Merced County Probation	Pretrial Services	Ventura County Probation Agency
Fifth Judicial District of Pennsylvania - Pretrial Services	Monterey County Probation	Riverside County Probation Department	Washburn County
Hawaii County Office of the Prosecuting Attorney	Multnomah County Sheriff's Office	San Joaquin County Probation	Yamhill County, Oregon, Circuit Court
Hawaii Dept. of Public Safety	Nevada County Probation	Santa Barbara County Probation Department	Yuba County Probation Department
	Office of State Courts Administration, Missouri Supreme Court	Sentencing Commission	