Many domains are becoming increasingly computational:
- Problem are computationally inefficient to solve exactly
- Large number of tools developed to solve them anyway
- Tools have parameters whose values have an impact on the output

**New Domain?**
all you need is an
- **Advisor Set**
  should be small and diverse
- **Advisor Estimator**
  should be able to rank solutions

What it looks like to domain users:

**Building an Automated Scientist:**
Parameter Advising for Accelerated Discovery

Dan DeBlasio
deblasiolab.org
dfdeblasio@utep.edu
twitter:danfdeblasio

Many domains are becoming increasingly computational:
- Problem are computationally inefficient to solve exactly
- Large number of tools developed to solve them anyway
- Tools have parameters whose values have an impact on the output

**New Domain?**
all you need is an
- **Advisor Set**
  should be small and diverse
- **Advisor Estimator**
  should be able to rank solutions

What it looks like to domain users:

**Building an Automated Scientist:**
Parameter Advising for Accelerated Discovery

Dan DeBlasio
deblasiolab.org
dfdeblasio@utep.edu
twitter:danfdeblasio

Many domains are becoming increasingly computational:
- Problem are computationally inefficient to solve exactly
- Large number of tools developed to solve them anyway
- Tools have parameters whose values have an impact on the output

**New Domain?**
all you need is an
- **Advisor Set**
  should be small and diverse
- **Advisor Estimator**
  should be able to rank solutions

What it looks like to domain users:

**Building an Automated Scientist:**
Parameter Advising for Accelerated Discovery

Dan DeBlasio
deblasiolab.org
dfdeblasio@utep.edu
twitter:danfdeblasio

Many domains are becoming increasingly computational:
- Problem are computationally inefficient to solve exactly
- Large number of tools developed to solve them anyway
- Tools have parameters whose values have an impact on the output

**New Domain?**
all you need is an
- **Advisor Set**
  should be small and diverse
- **Advisor Estimator**
  should be able to rank solutions

What it looks like to domain users:

**Building an Automated Scientist:**
Parameter Advising for Accelerated Discovery

Dan DeBlasio
deblasiolab.org
dfdeblasio@utep.edu
twitter:danfdeblasio

Many domains are becoming increasingly computational:
- Problem are computationally inefficient to solve exactly
- Large number of tools developed to solve them anyway
- Tools have parameters whose values have an impact on the output

**New Domain?**
all you need is an
- **Advisor Set**
  should be small and diverse
- **Advisor Estimator**
  should be able to rank solutions

What it looks like to domain users:

**Building an Automated Scientist:**
Parameter Advising for Accelerated Discovery

Dan DeBlasio
deblasiolab.org
dfdeblasio@utep.edu
twitter:danfdeblasio

Many domains are becoming increasingly computational:
- Problem are computationally inefficient to solve exactly
- Large number of tools developed to solve them anyway
- Tools have parameters whose values have an impact on the output

**New Domain?**
all you need is an
- **Advisor Set**
  should be small and diverse
- **Advisor Estimator**
  should be able to rank solutions

What it looks like to domain users:

**Building an Automated Scientist:**
Parameter Advising for Accelerated Discovery

Dan DeBlasio
deblasiolab.org
dfdeblasio@utep.edu
twitter:danfdeblasio

Many domains are becoming increasingly computational:
- Problem are computationally inefficient to solve exactly
- Large number of tools developed to solve them anyway
- Tools have parameters whose values have an impact on the output

**New Domain?**
all you need is an
- **Advisor Set**
  should be small and diverse
- **Advisor Estimator**
  should be able to rank solutions

What it looks like to domain users:

**Building an Automated Scientist:**
Parameter Advising for Accelerated Discovery

Dan DeBlasio
deblasiolab.org
dfdeblasio@utep.edu
twitter:danfdeblasio

Many domains are becoming increasingly computational:
- Problem are computationally inefficient to solve exactly
- Large number of tools developed to solve them anyway
- Tools have parameters whose values have an impact on the output

**New Domain?**
all you need is an
- **Advisor Set**
  should be small and diverse
- **Advisor Estimator**
  should be able to rank solutions

What it looks like to domain users:

**Building an Automated Scientist:**
Parameter Advising for Accelerated Discovery

Dan DeBlasio
deblasiolab.org
dfdeblasio@utep.edu
twitter:danfdeblasio

Many domains are becoming increasingly computational:
- Problem are computationally inefficient to solve exactly
- Large number of tools developed to solve them anyway
- Tools have parameters whose values have an impact on the output

**New Domain?**
all you need is an
- **Advisor Set**
  should be small and diverse
- **Advisor Estimator**
  should be able to rank solutions

What it looks like to domain users:

**Building an Automated Scientist:**
Parameter Advising for Accelerated Discovery

Dan DeBlasio
deblasiolab.org
dfdeblasio@utep.edu
twitter:danfdeblasio

Many domains are becoming increasingly computational:
- Problem are computationally inefficient to solve exactly
- Large number of tools developed to solve them anyway
- Tools have parameters whose values have an impact on the output

**New Domain?**
all you need is an
- **Advisor Set**
  should be small and diverse
- **Advisor Estimator**
  should be able to rank solutions

What it looks like to domain users:

**Building an Automated Scientist:**
Parameter Advising for Accelerated Discovery

Dan DeBlasio
deblasiolab.org
dfdeblasio@utep.edu
twitter:danfdeblasio

Many domains are becoming increasingly computational:
- Problem are computationally inefficient to solve exactly
- Large number of tools developed to solve them anyway
- Tools have parameters whose values have an impact on the output

**New Domain?**
all you need is an
- **Advisor Set**
  should be small and diverse
- **Advisor Estimator**
  should be able to rank solutions

What it looks like to domain users: