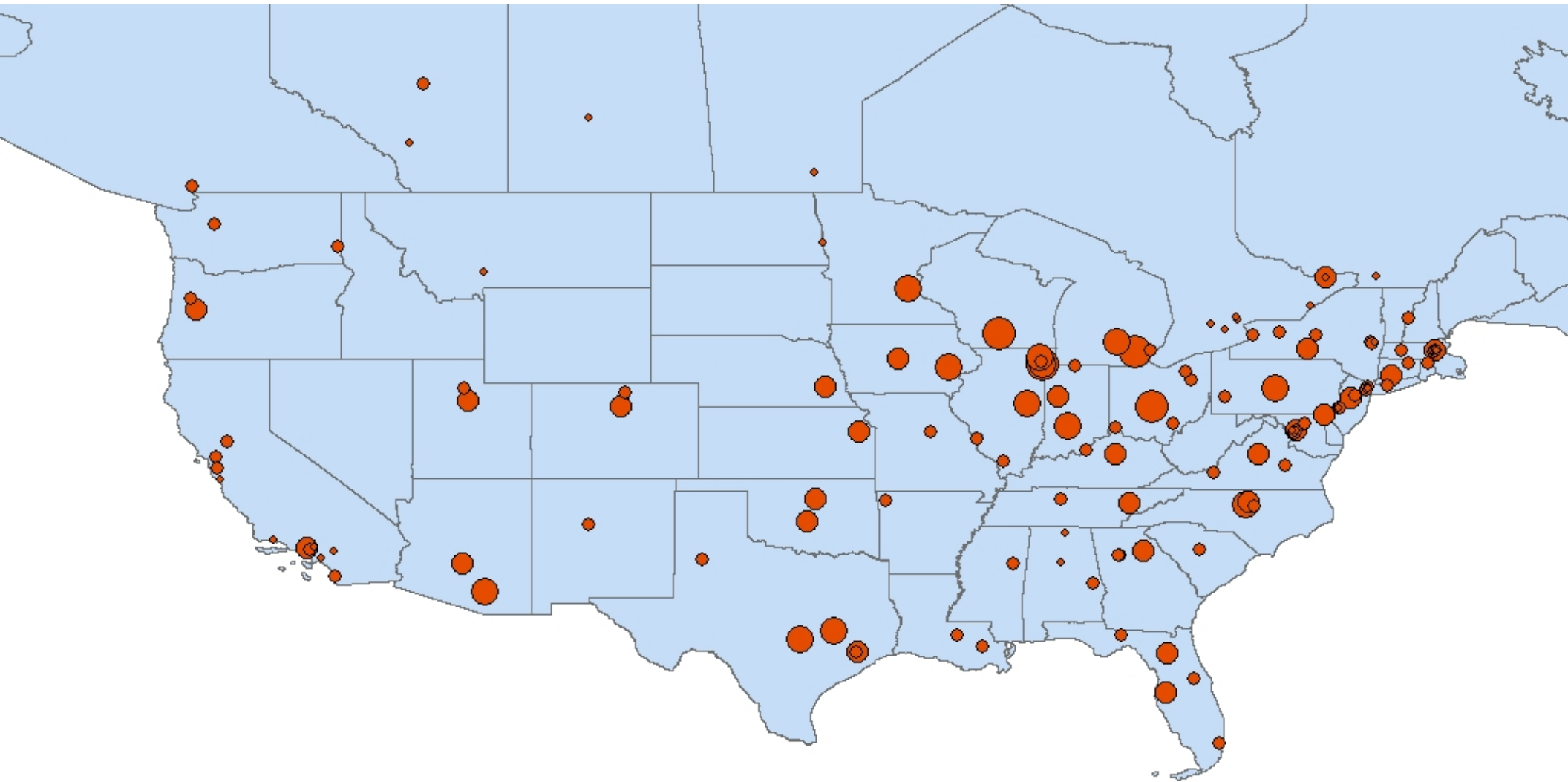


**MONEY??**

***LIBRARIES??***

Felix Kabo, M.Arch, Ph.D.

# *LIBRARIES* ∝ NATIONAL INSTITUTES OF HEALTH FUNDING



```
use bdc2014
```

```
create table ill_institutions
```

```
(  
Institution varchar(255),  
City varchar(125),  
State varchar(50),  
Zipcode varchar(9),  
RU_VH varchar(1),  
ARL varchar(1),  
ACAD_RES varchar(1),  
Public_100K varchar(1),  
Public_CA varchar(1),  
latitude float,  
longitude float  
);
```

```
bulk insert ill_institutions
```

```
from 'C:\Users\Felix Kabo\Desktop\BDC Knowledge Institutions.txt'  
with (firstrow=2);  
--406 rows
```

```
create table nihgrants2013  
(  
  ORGANIZATION varchar(255),  
  AWARDS int,  
  FUNDING int,  
  CITY varchar(125),  
  STATE varchar(2)  
);
```

```
bulk insert nihgrants2013  
from 'C:\Users\Felix Kabo\Desktop\NIH Funding FY2013.txt'  
with (firstrow=2);  
--2292 rows
```

```
select sum(FUNDING) as moneyflows,  
upper(CITY) as city, upper(STATE) as state  
into moneysum  
from nihgrants2013  
group by CITY, STATE  
order by moneyflows  
--813 rows
```

```
select * into knowledge_houses  
from ill_institutions  
left join states_abbreviations  
on ill_institutions.State =  
states_abbreviations.ST  
--406 rows
```

```
select COUNT(Institution) as knowledge_counts,  
upper(City) as cities, ABBR as states  
from knowledge_houses  
group by City, ABBR  
order by knowledge_counts  
--318 rows
```

```
select COUNT(Institution) as knowledge_counts,  
upper(City) as cities, ABBR as states  
from knowledge_houses  
where ABBR!='NULL'  
group by City, ABBR  
order by knowledge_counts  
--279 rows
```

```
select COUNT(Institution) as knowledge_counts, upper(City) as cities,  
ABBR as states  
into total_knowledge  
from knowledge_houses  
where ABBR!='NULL'  
group by City, ABBR  
order by knowledge_counts  
--279 rows
```

```
select * into money_knowledge  
from moneysum  
left join total_knowledge  
on moneysum.city = total_knowledge.cities  
and moneysum.state = total_knowledge.states  
--813 rows
```

```
select * from money_knowledge
where states!='NULL'
order by moneyflows
--194 rows
```

```
select * from money_knowledge
where knowledge_counts>0
order by moneyflows
--194 rows
```



--Finally, take easy route and calculate correlations in Stata...or do it in SQL

```
alter table money_knowledge  
alter column moneyflows bigint
```

```
declare @mean1 decimal(20,6)  
declare @mean2 decimal(20,6)  
select @mean1=AVG(moneyflows*1.0)  
,@mean2=AVG(knowledge_counts*1.0)  
from money_knowledge  
where knowledge_counts>0;
```

```
select (SUM(((moneyflows*1.0-@mean1)*(knowledge_counts*1.0-@mean2))/  
COUNT(*))  
/(((STDEVP(moneyflows*1.0)*STDEVP(knowledge_counts*1.0)))) as correlation  
from money_knowledge  
where knowledge_counts>0;
```

--0.554758521032079 Is it elegant? Maybe not...but you get the picture

**MORE *LIBRARIES* = MORE MONEY!!**

