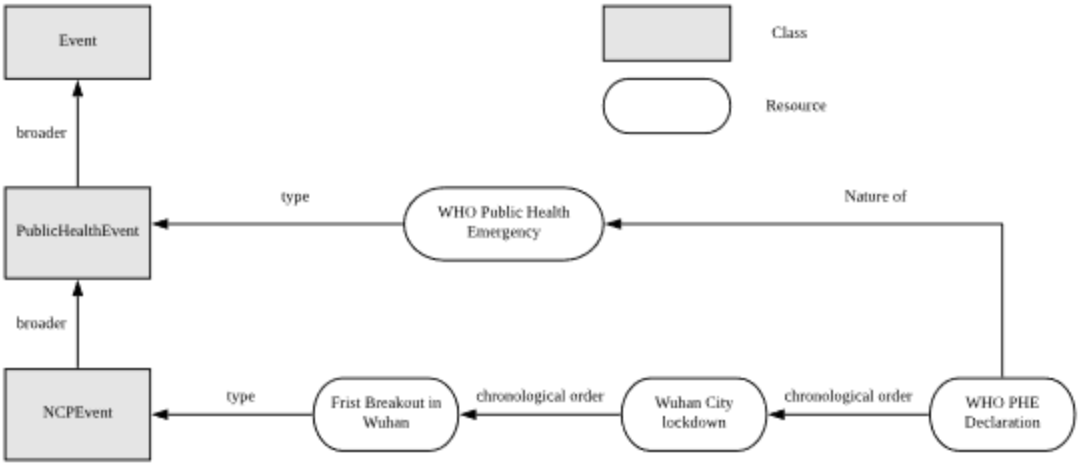
事件图谱

图谱介绍

从人民日报、丁香医生、腾讯、新浪微博抽取的新闻数据，从第一例出发到封城到各地响应等的重大事件脉络及相关时间，与新冠百科、新冠科研、新冠临床、新冠防控、新冠英雄等有所关联，并对新闻中的一些内容进行相关语义标注。支持事件在时间上的正向和反向索引，并提供事件本身发展脉络的枚举。

图谱Schema



图谱数据

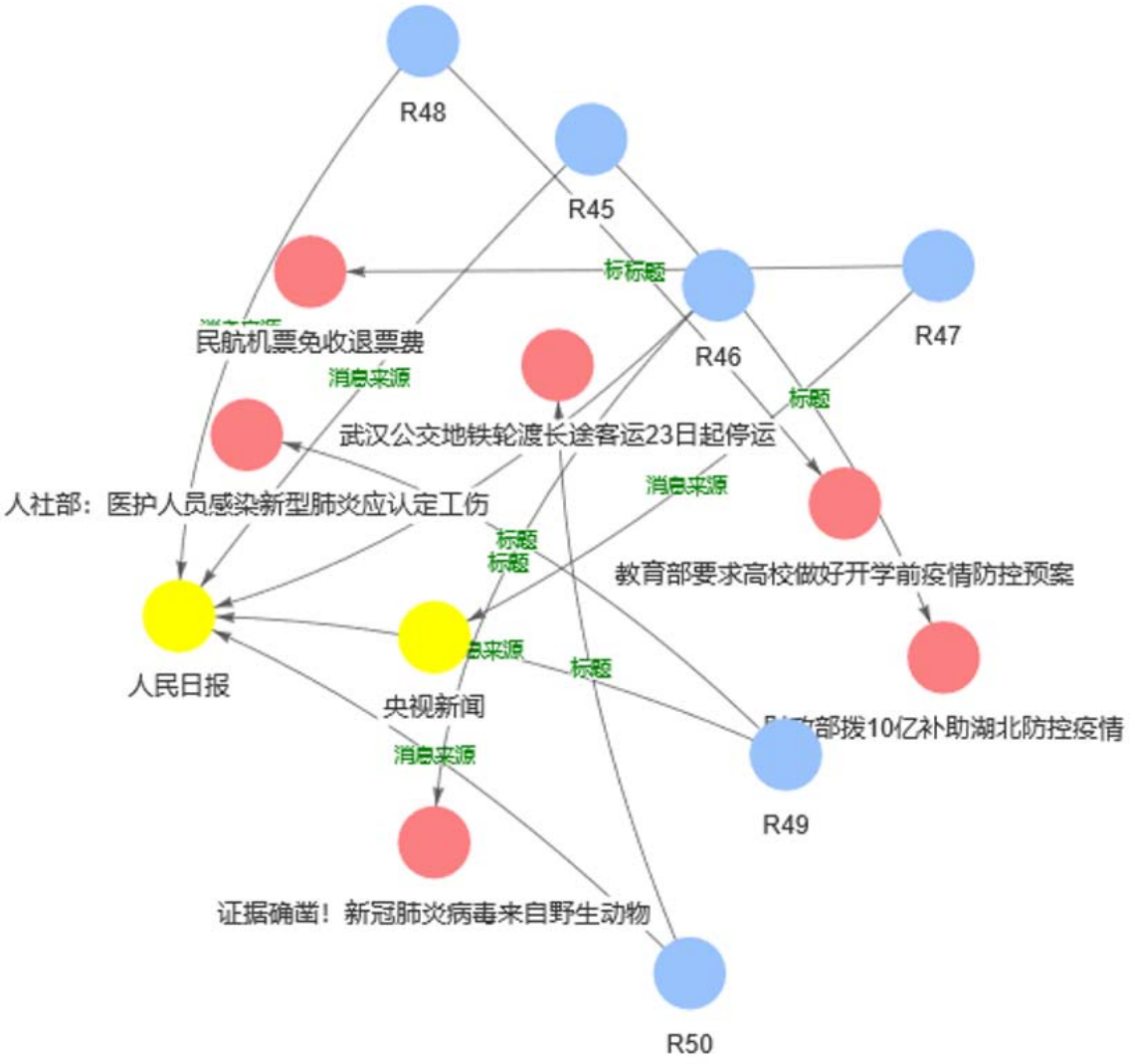
三元组数量 2262个 实体数量 224个 谓词列表17个：
- 发生日期
- 标题
- 简介
- url
- 消息来源
- 之前发生 - 政策标题
- 政策发布日期
- 政策成文日期
- 政策发文机构
- 政策发文字号
- 政策对象
- 政策依据
- 政策落款
- 政策有关事项
- 政策内容
- 后续政策

图谱查询示例

1. 2020年1月23日发生的新冠病毒事件及消息来源?

```
select ?x ?y ?z
{
?x <发生日期> "01232020".
?x <消息来源> ?y.
?x <标题> ?z.
}
```

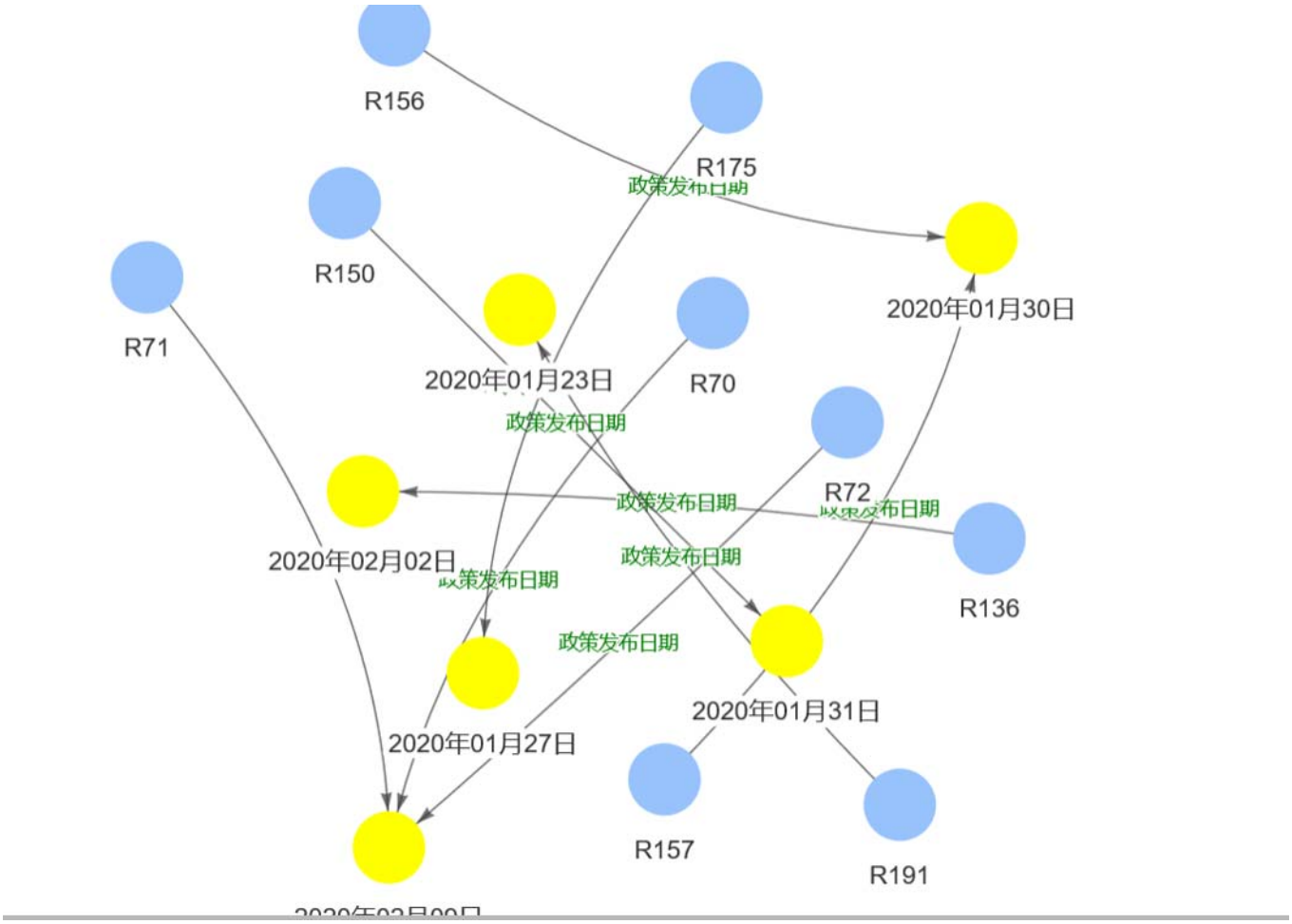
结果图示:



1. 抗击疫情期间交通运输部发布的政策及发布日期?

```
select ?x ?y
{
?x <政策发文机构> "交通运输部" .
?x <政策发布日期> ?y.
}
```

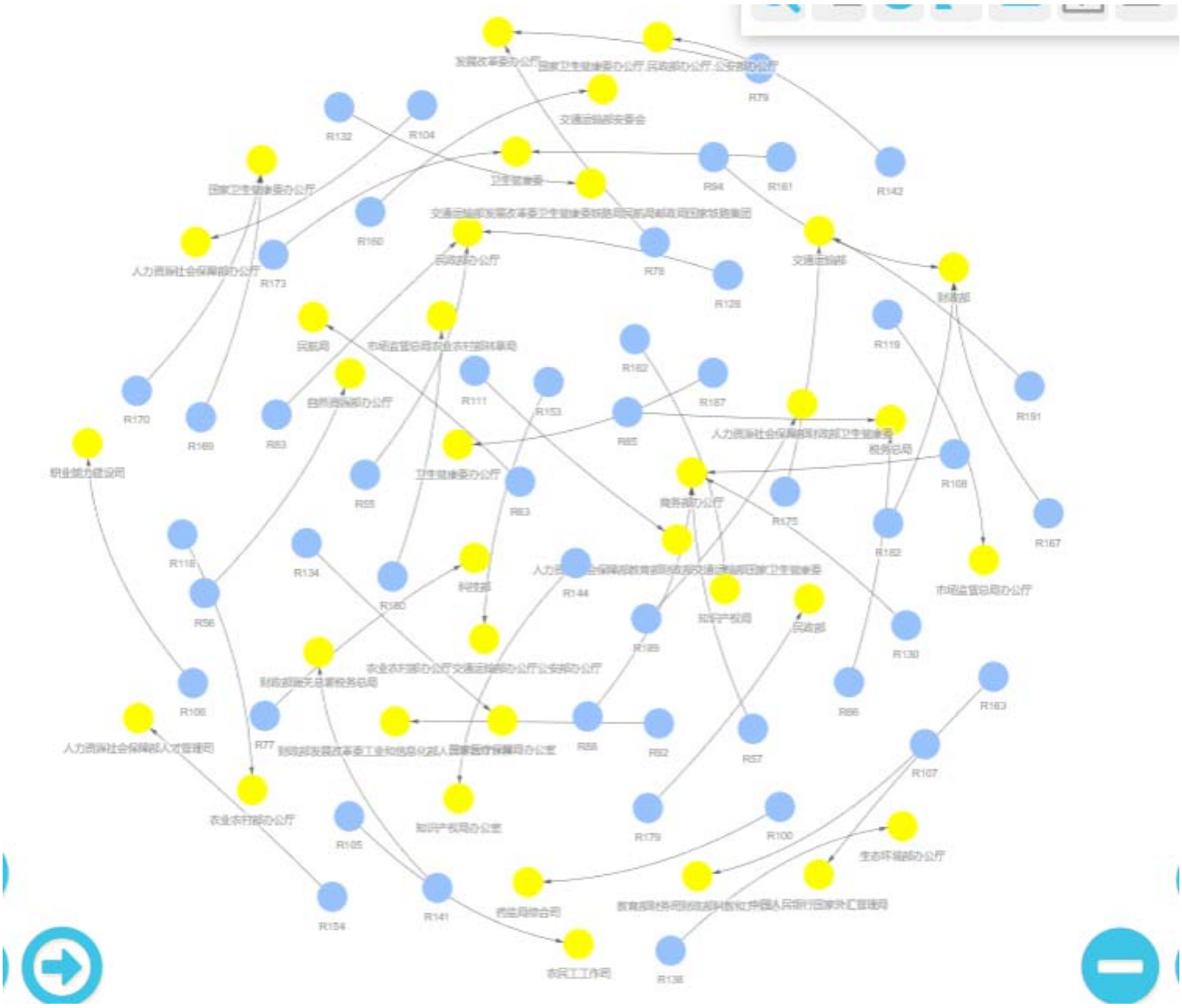
结果图示：



1. 抗击疫情期间哪些机构的一些政策在发布当天就开始实施?

```
select ?x ?a
{
?x <政策发布日期> ?y.
?x <政策成立日期> ?z.
?x <政策发文机构> ?a.
FILTER (?y = ?z).
}
```

结果图示：



图谱API地址和参数示例

遵从HTTP协议以POST请求访问

URL:http://cloud.gstore.cn/api

accesskeyid:"eefd9c54cafa4f229e65a7cab73eb8a6"

access*secret:"AF3F19E64891BA58531DC5D2CAB8E349"*

dbName:"event2.0"

1. 获取数据库详情信息

输入参数(以json方式放置在Request Param中)：

action: "monitorDB"

dbName: "event2.0"

accesskeyid:"eefd9c54cafa4f229e65a7cab73eb8a6"

*access*secret:"AF3F19E64891BA58531DC5D2CAB8E349"

以python为例运行代码：

```
import requests
def gstore():
    url = 'http://cloud.gstore.cn/api'
    KeyID = "eefd9c54cafa4f229e65a7cab73eb8a6"
    Secret = "AF3F19E64891BA58531DC5D2CAB8E349"
    action = "monitorDB"
    dbname = 'event2.0'
    dic = { "action":action,
        "dbName":dbname,
        "accesskeyid":KeyID,
        "access_secret":Secret
    }
    req = requests.request('POST', url, params=dic)
    print(req.text)
    return
gstore()
```

输出结果:

{"msg":"ok","connectionnum":0,"StatusMsg":"success","creator":"root","triple num":2262,"subject num":163,"entity num":224,"literalnum":1309,"StatusCode":0,"built*time":"2020-03-03 22:28:28","predicatenum":24,"predicate num":24,"database":"event2.0","subjectnum":163,"success":1,"cost*time":1,"literal num":1309,"connection num":0,"triplenum":2262,"entitynum":224}

1. 查询数据库
   输入参数(以json方式放置在Request Param中)：
   action: "queryDB"
   accesskeyid:"eefd9c54cafa4f229e65a7cab73eb8a6"
   access_secret:"AF3F19E64891BA58531DC5D2CAB8E349"
   dbName: "event2.0"
   sparql:要查询的sparql语句

以python为例运行代码：

```
import requests
def gstore():
    url = 'http://cloud.gstore.cn/api'
    KeyID = "eefd9c54cafa4f229e65a7cab73eb8a6"
    Secret = "AF3F19E64891BA58531DC5D2CAB8E349"
    action = "queryDB"
    dbname = 'event2.0'
    sparql = "select ?x ?y{  ?x <政策发文机构> \"交通运输部\" .?x <政策发布日期> ?y.}"
    dic = {"action":action,
           "accesskeyid":KeyID,
           "access_secret":Secret,
           "dbName":dbname,
           "sparql":sparql
    }
    req = requests.request('POST', url, params=dic)
    print(req.text)

gstore()
```

输出结果:

{"msg":"ok","data":{"head":{"link":[],"vars":["x","y"]},"StatusMsg":"success","results":{"bindings":[{"x":{"type":"uri","value":"http://www.openkg.cn/2019-nCoV/event/resource/R70"},"y":{"type":"literal","value":"2020年02月09日"}},{"x":{"type":"uri","value":"http://www.openkg.cn/2019-nCoV/event/resource/R71"},"y":{"type":"literal","value":"2020年02月09日"}},{"x":{"type":"uri","value":"http://www.openkg.cn/2019-nCoV/event/resource/R72"},"y":{"type":"literal","value":"2020年02月09日"}},{"x":{"type":"uri","value":"http://www.openkg.cn/2019-nCoV/event/resource/R136"},"y":{"type":"literal","value":"2020年02月02日"}},{"x":{"type":"uri","value":"http://www.openkg.cn/2019-nCoV/event/resource/R150"},"y":{"type":"literal","value":"2020年01月31日"}},{"x":{"type":"uri","value":"http://www.openkg.cn/2019-nCoV/event/resource/R156"},"y":{"type":"literal","value":"2020年01月30日"}},{"x":{"type":"uri","value":"http://www.openkg.cn/2019-nCoV/event/resource/R157"},"y":{"type":"literal","value":"2020年01月30日"}},{"x":{"type":"uri","value":"http://www.openkg.cn/2019-nCoV/event/resource/R175"},"y":{"type":"literal","value":"2020年01月27日"}},{"x":{"type":"uri","value":"http://www.openkg.cn/2019-nCoV/event/resource/R191"},"y":{"type":"literal","value":"2020年01月23日"}}]},"StatusCode":0},"size":9,"success":1,"cost_time":4}