

# **BRUNSWICK INFORMATION TECHNOLOGY DEPARTMENT**

Proposed Budget FY 2024-25  
Town Council Budget & CIP Workshop  
Thursday, March 28, 2024





**Information  
Technology**

**Geographic  
Information  
Systems**

**TV3**





# Information Technology

## *Responsibilities*

- Network Management
- Systems Administration
- User Support
- Cybersecurity
- Infrastructure Planning and Management
- Disaster Recovery & Business Continuity
- Vendor Management

# ***Ticketing & Work Tracking***

In early 2023, we implemented a townwide ticketing system. As of **March 1st, 2024**, we have processed...

**1298 Tickets**

## **Top Categories**

Hardware	Software	Printing	Permissions	Outlook
167	124	124	60	53

**Information  
Technology**







# Information Technology

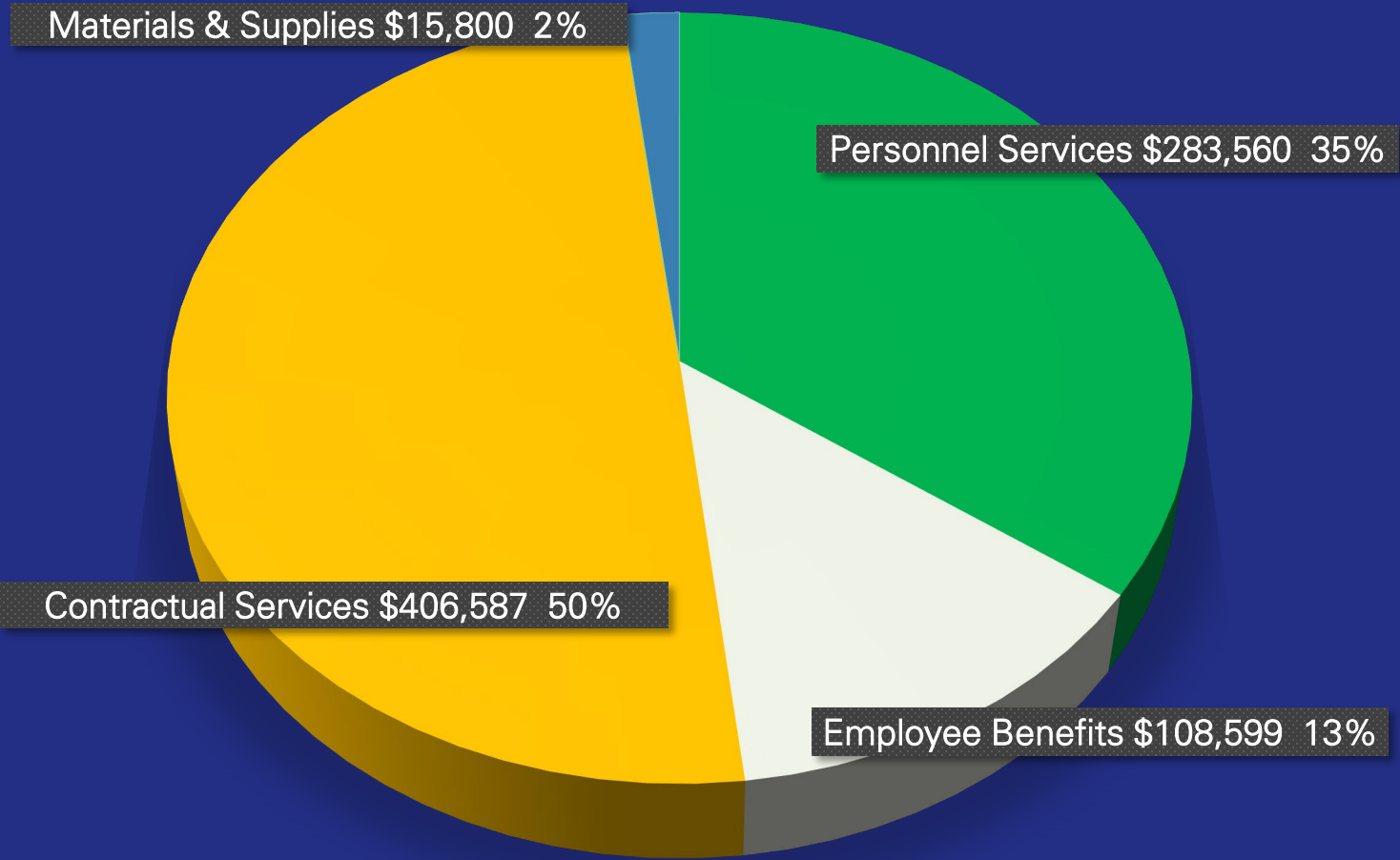
## *Projects & Initiatives*

- Standardization
  - Device Life Cycle Management & Device Reduction
  - Peripherals
  - Mobile Device Management (MDM)
  - Support Tools
  - Unification of services
- Multi-Factor Authentication
  - Enterprise applications
- Infrastructure Upgrades

## **FY23 Projects in Progress**

- Exchange Online Migration
- Townhall UPS Upgrade
- TLD Change (.org → .gov)

***Budget Request by Area***



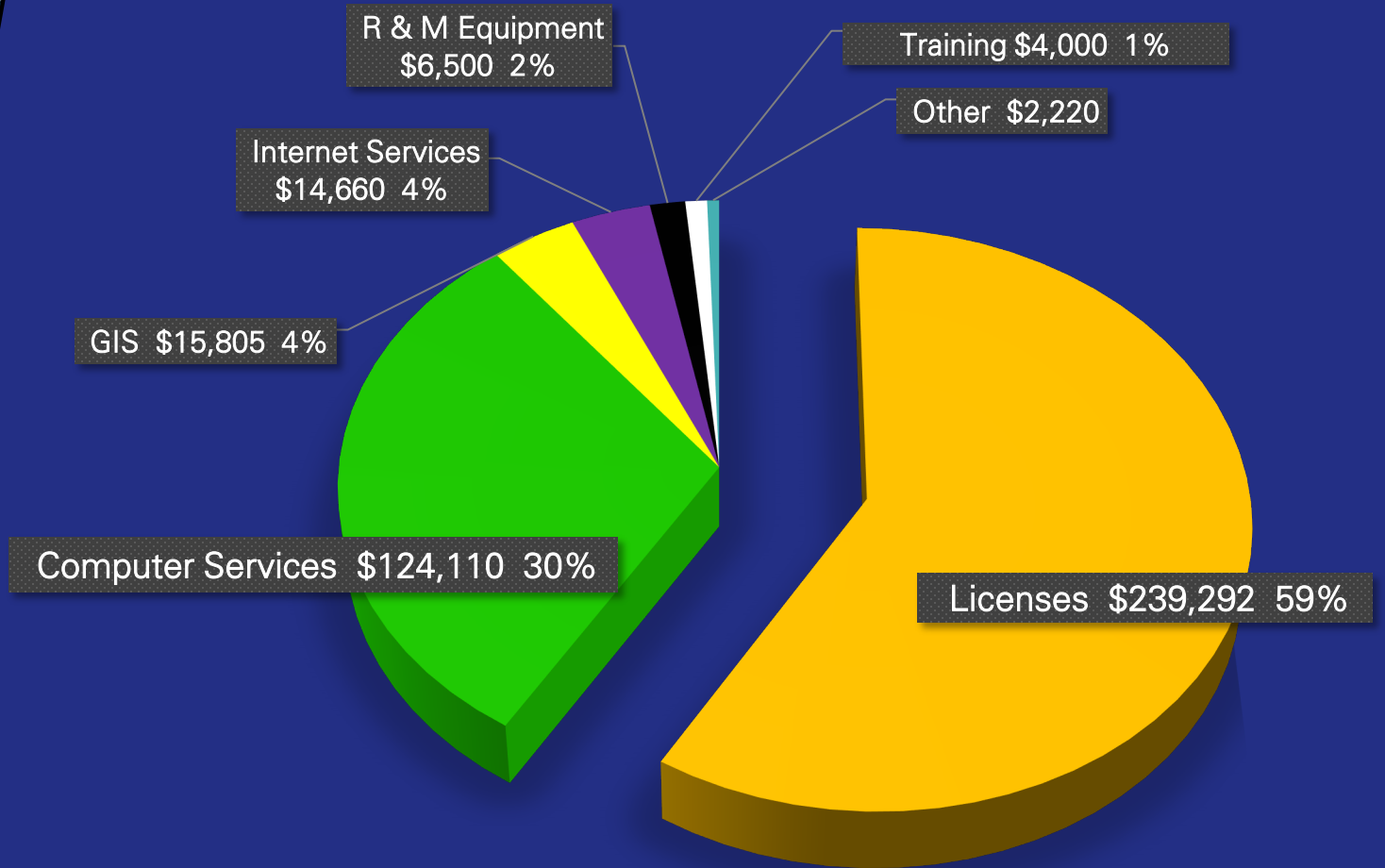
**Information  
Technology**





# Information Technology

## *Budget Request Area – Contractual Services*



## ***Budget Areas – Computer Services***

### **Systems Engineering (SE) Foundations**

- Workstation & Server Patching
- Workstation & Server Antivirus
- Workstation & Server Endpoint Detection & Response (EDR)
- Email Filter
- Monthly Infrastructure Health Checks
- Server Monitoring
- Critical Care

### **SE Misc. Infrastructure Assistance**



**Information  
Technology**

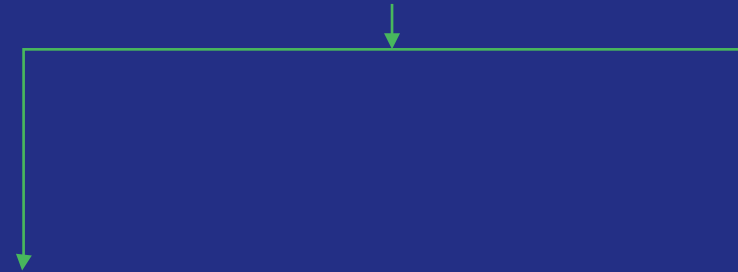




# Information Technology

## *Budget Areas – Licensing*

### Licensing



#### **Warranty & Support**

- Switches / Routers / Firewalls
- Virtual Infrastructure
- Access Control Hardware

#### **Software**

- Phone licensing
- Support Services
- ERP
- Microsoft 365
- Civic (Website)

#### **Largest Expenses**

- Tyler Munis (ERP) – \$90,670
- Microsoft 365 (MS Office Suite) – \$53,624

## *Upcoming CIP Projects*

- UPS for Police Department Data Center
- Conferencing in Townhall 206
- Camera Install at Mere Point Boat Launch
- Network Video Recorder (PD & TH)
- Tablets for Fire Department Vehicles
- Tightrope Stack Refresh



**Information  
Technology**



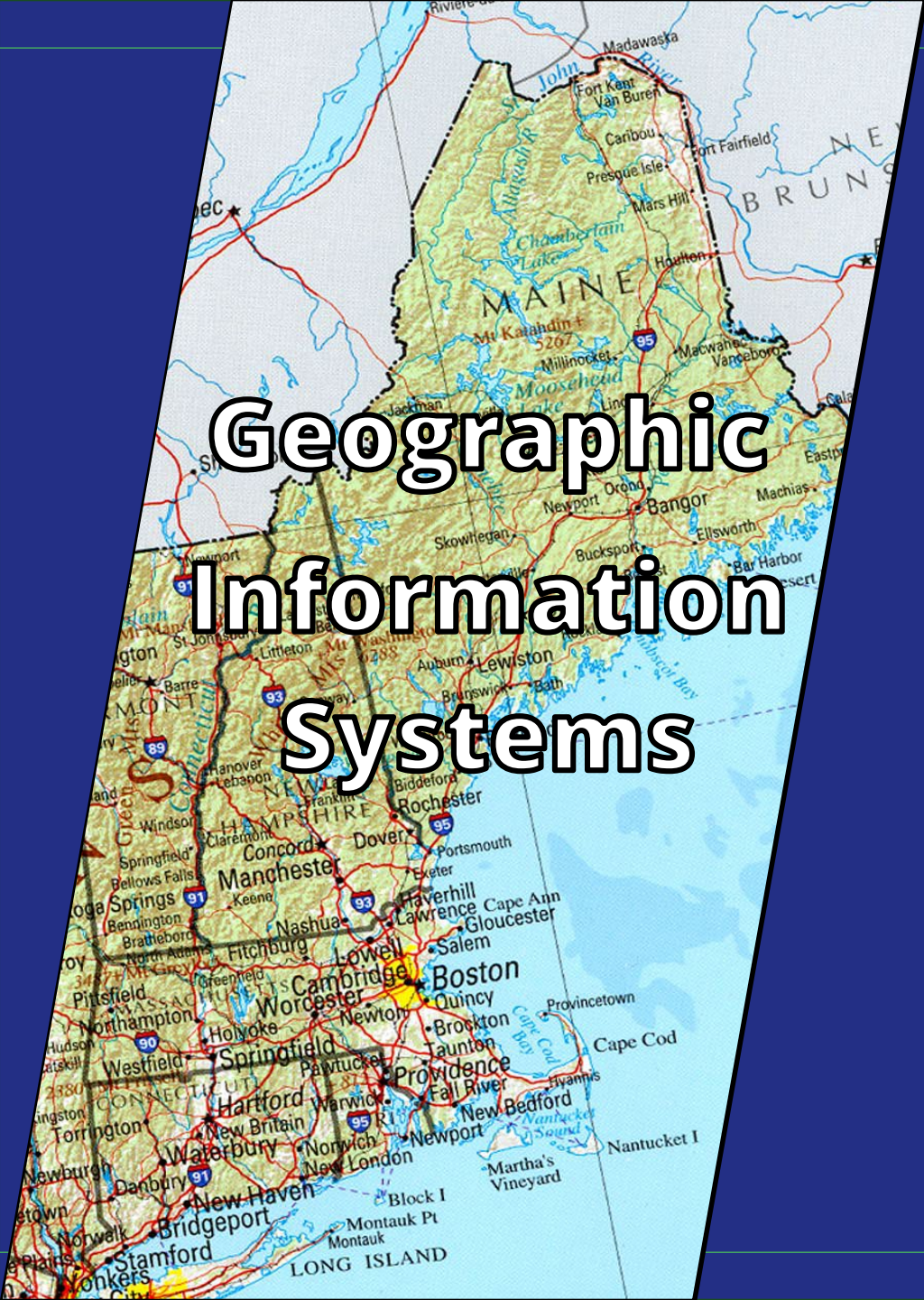


**Information  
Technology**

**Geographic  
Information  
Systems**

**TV3**



A map of the Northeast United States, showing parts of Maine, New Brunswick, New Hampshire, Vermont, Massachusetts, Connecticut, and Rhode Island. Major cities like Bangor, Portland, Lewiston, Auburn, Rochester, Concord, Manchester, Nashua, Lowell, Boston, Cambridge, Worcester, Springfield, Hartford, New Haven, and Stamford are labeled. The map is tilted and serves as a background for the title.

# Geographic Information Systems

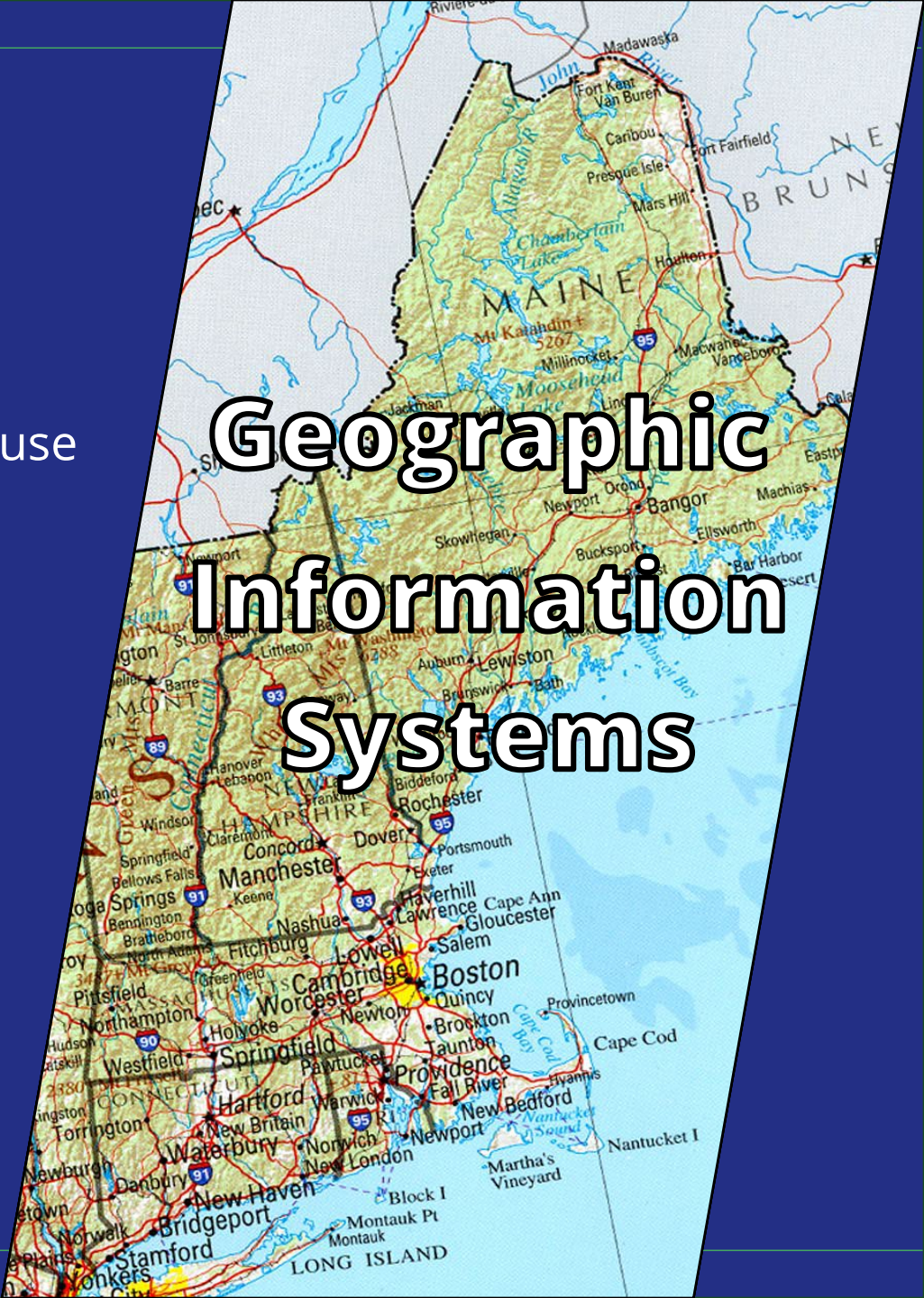
## *Responsibilities*

- System Administration
- Data Management
- User Support
- Customization & Development
- Data QA
- Integration w/ Existing Apps



# ***Projects & Initiatives***

- New Public Facing GIS Website
- Consolidation of GIS Services / Services Brought In-House
- DPW Work Order System
- App Development for Departments
- App Development for Committees



# **Geographic Information Systems**





```

59         rowcount += 1
60
61     #create parcel geom dictionary from base parcel feature class
62     parcelgeom = {}
63     parcelgeomlist = []
64     caidumplist = []
65     with arcpy.da.SearchCursor(geomfc, ['SHAPE@', 'Maplot', 'EditYear', 'Type', 'GIS_Acres', 'AVPID', 'Shape']) as cursor:
66         for row in cursor:
67             #print(str(row))
68             parcelgeom[str(row[1]).strip()] = [row[0], row[2], row[3], row[4], row[5], row[6], row[7], row[8]]
69             parcelgeomlist.append(str(row[1]).strip())
70
71     #Create full data parcels by fetching geometry from geometry dicts for every entry in the vision
72     nogeomIDs = []
73     with arcpy.da.SearchCursor(visiondumtable, vtfield_names) as cursor:
74         count = 0
75         nogeomcount = 0
76         with arcpy.da.InsertCursor(parcelfc, vfcfield_names) as icursor:
77             for row in cursor:
78                 GIS_ID = str(row[vtfield_names.index('REM_GIS_ID')]).strip()
79                 caidumplist.append(GIS_ID)
80                 if GIS_ID in parcelgeom:
81                     geom = parcelgeom[GIS_ID][0]
82                     if geom is not None:
83                         irow = row + tuple([geom]) + tuple([None, None])
84                         icursor.insertRow(irow)
85                         count += 1
86                     else:
87                         nogeomcount += 1
88                         #print('No geom GIS ID : ' + str(GIS_ID))
89                         nogeomIDs.append(str(GIS_ID))
90                 else:
91                     nogeomcount += 1

```

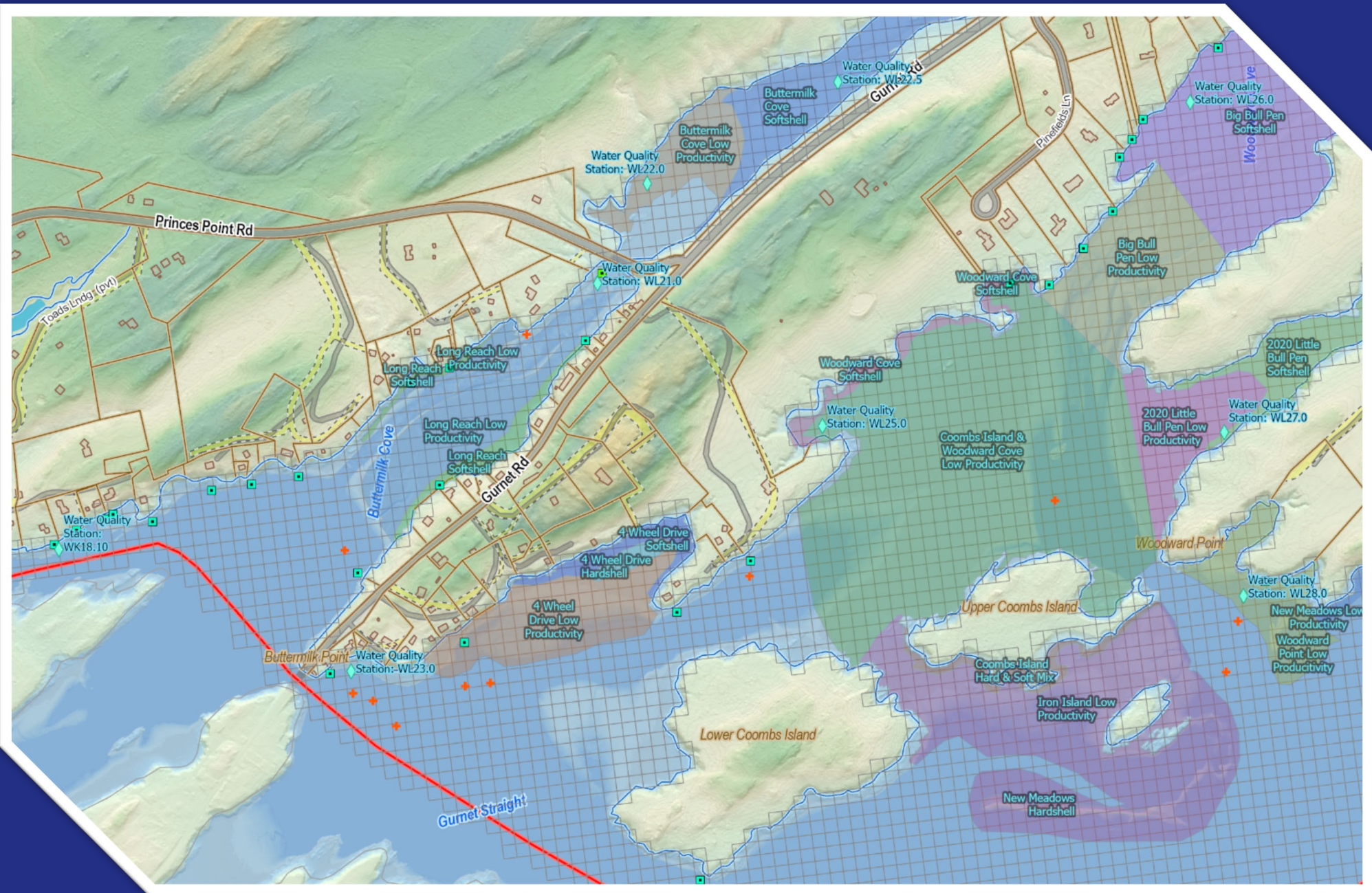


```

26     with arcpy.da.UpdateCursor(parcelfields, parcelfields) as cursor:
27         for row in cursor:
28             if row[parcelfields.index('LND_USE_DESC')] in residential:
29                 #print(str(row[parcelfields.index('LND_USE_DESC')]))
30                 row[parcelfields.index('residential_sw')] = 1
31                 if row[parcelfields.index('LND_USE_DESC')] in bcn_pop.dwellfactors: #dwellfactors
32                     # assigns people to land use types, i.e. a duplex is 6 people etc
33                     row[parcelfields.index('pop_guess')] = bcn_pop.dwellfactors[row[parcelfields.index('LND_USE_DESC')]]
34                     pop_guess_dict[row[parcelfields.index('REM_PID')]] = [bcn_pop.dwellfactors[row[parcelfields.index('LND_USE_DESC')]]]
35                 else:
36                     row[parcelfields.index('pop_guess')] = 1
37                     pop_guess_dict[row[parcelfields.index('REM_PID')]] = [2, row[parcelfields.index('LND_USE_DESC')]]
38             else:
39                 if row[parcelfields.index('LND_USE_DESC2')] in residential: #sometimes a mixed
40                     # residential part in the second land use code field
41                     row[parcelfields.index('residential_sw')] = 1
42                     if row[parcelfields.index('LND_USE_DESC2')] in bcn_pop.dwellfactors:
43                         row[parcelfields.index('pop_guess')] = bcn_pop.dwellfactors[row[parcelfields.index('LND_USE_DESC2')]]
44                         pop_guess_dict[row[parcelfields.index('REM_PID')]] = [bcn_pop.dwellfactors[row[parcelfields.index('LND_USE_DESC2')]]]
45                     else:
46                         row[parcelfields.index('pop_guess')] = 0
47                         pop_guess_dict[row[parcelfields.index('REM_PID')]] = [0, row[parcelfields.index('LND_USE_DESC2')]]
48                 else:
49                     row[parcelfields.index('residential_sw')] = 0
50             if row[parcelfields.index('pop_override')] > 0: #The pop_override field allows use
51                 # model what pop value to use for the parcel. if this is used, the pop adjustment
52                 # should be also adjusted by the same amount
53                 row[parcelfields.index('residential_sw')] = 1
54                 row[parcelfields.index('pop_guess')] = row[parcelfields.index('pop_override')]
55                 pop_guess_dict[row[parcelfields.index('REM_PID')]] = [row[parcelfields.index('pop_override')]]
56             cursor.updateRow(row)

```



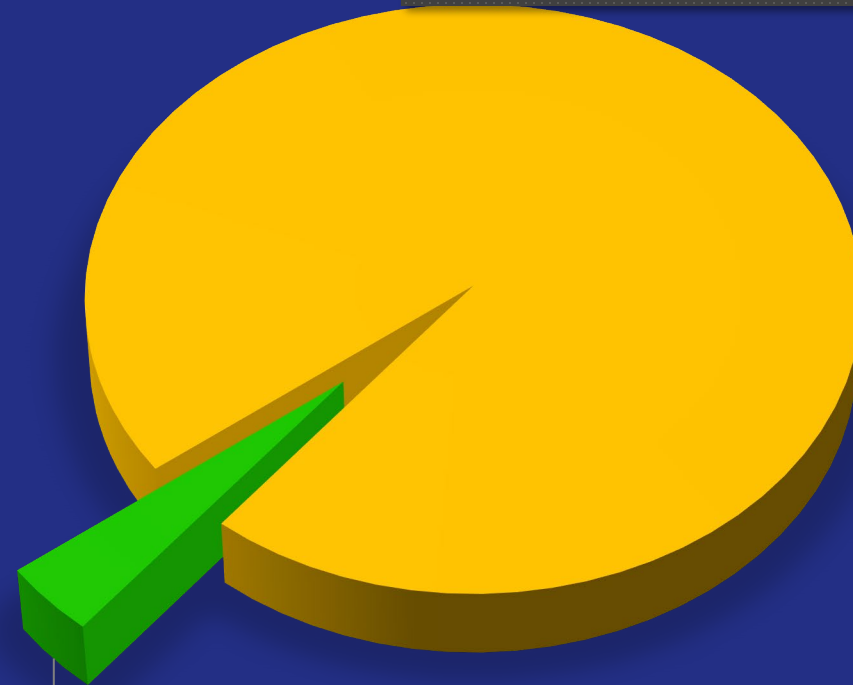




## *GIS Budget Request*

# Geographic Information Systems

Other Contractual Services 390,782 96%



GIS \$15,805 4%



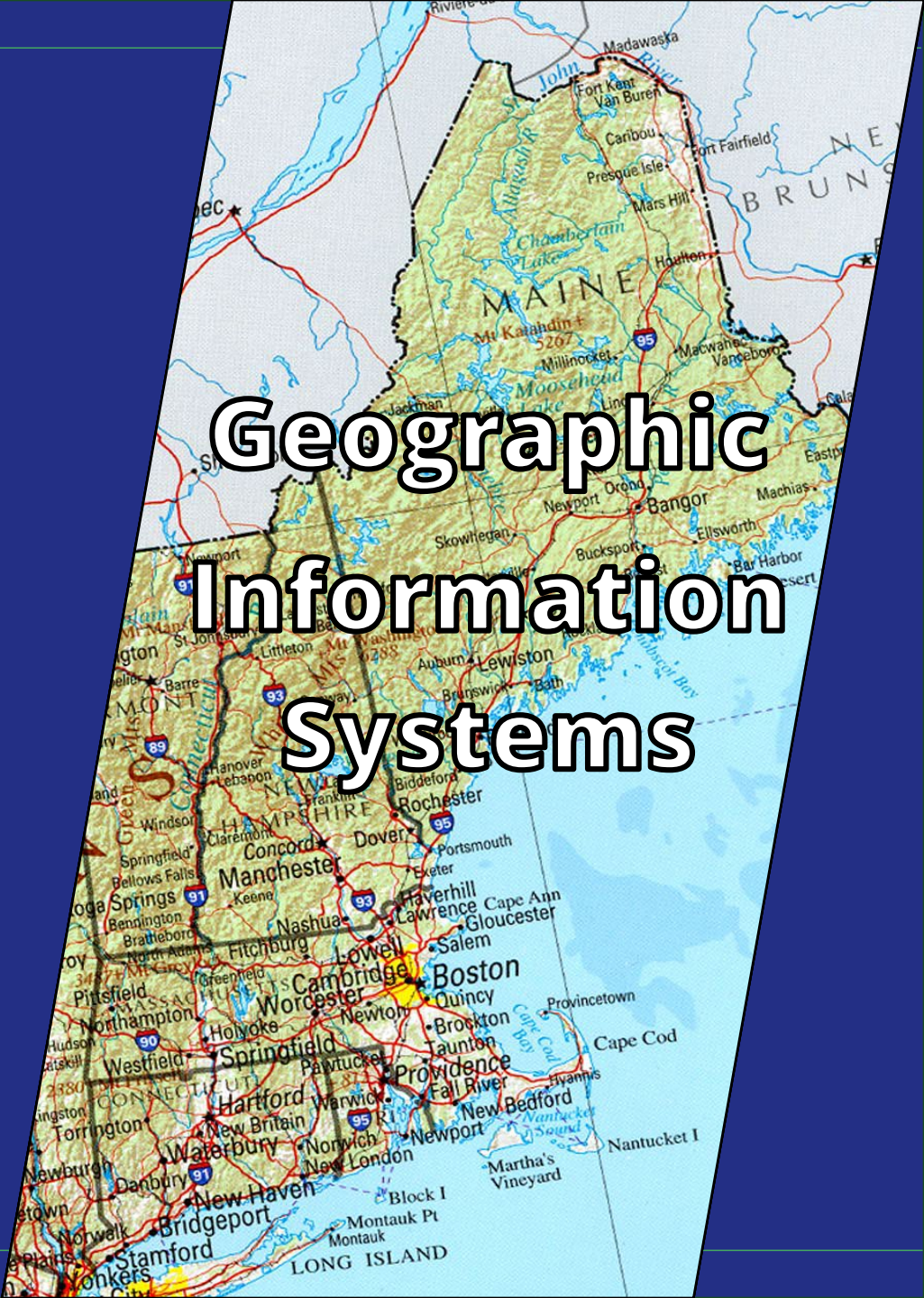
# ***GIS Budget Request Breakdown***

## **Esri Credits**

- Feature Storage
- Hosted Imagery
- Offline Maps / Misc. Files

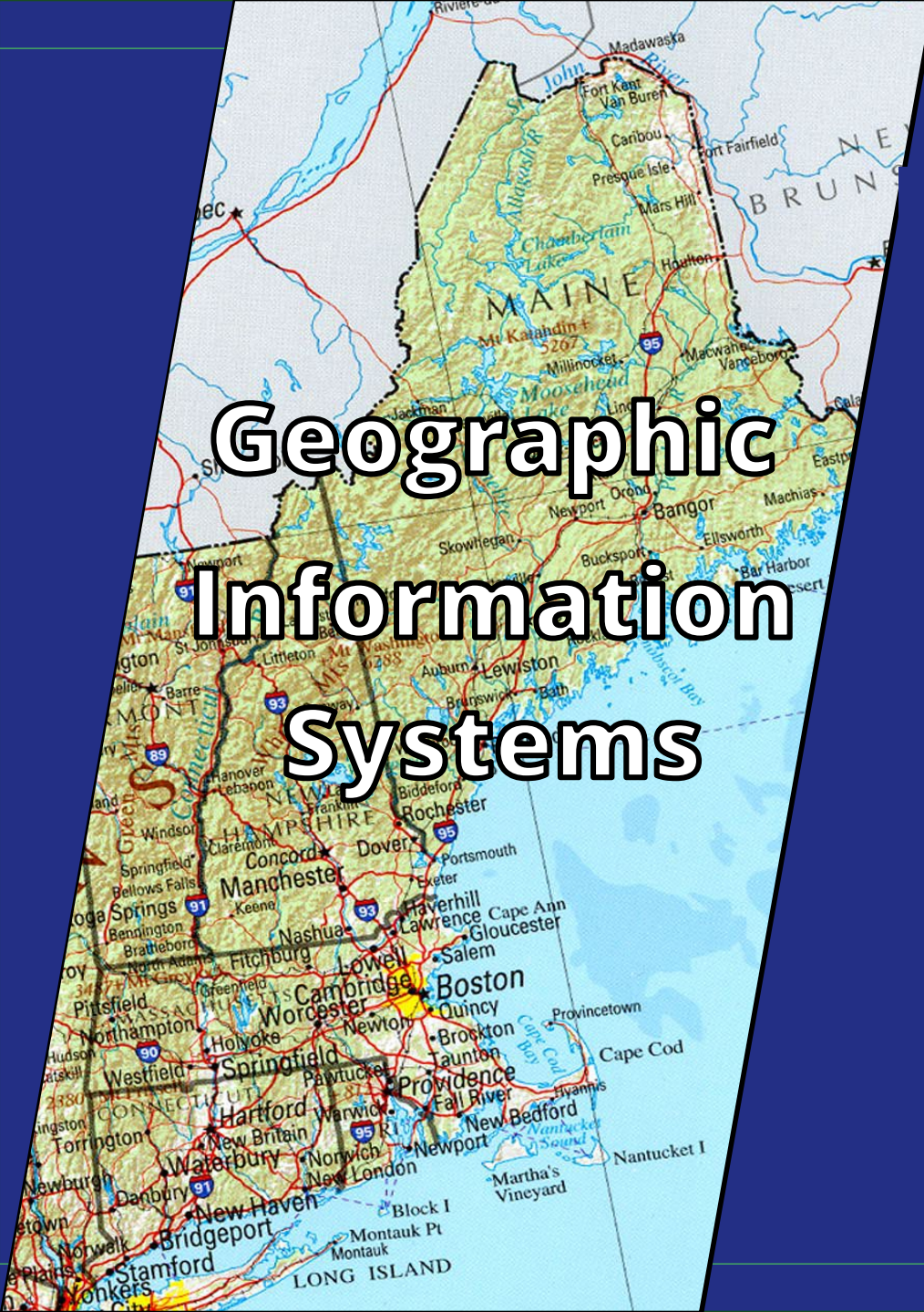
## **Esri Licensing**

- ArcGIS Desktop Basic / Standard
- ArcGIS Business Analyst
- ArcGIS Mobile Worker
- ArcGIS Online Creator / Pro
- ArcGIS Spatial Analyst
- ArcGIS Editor



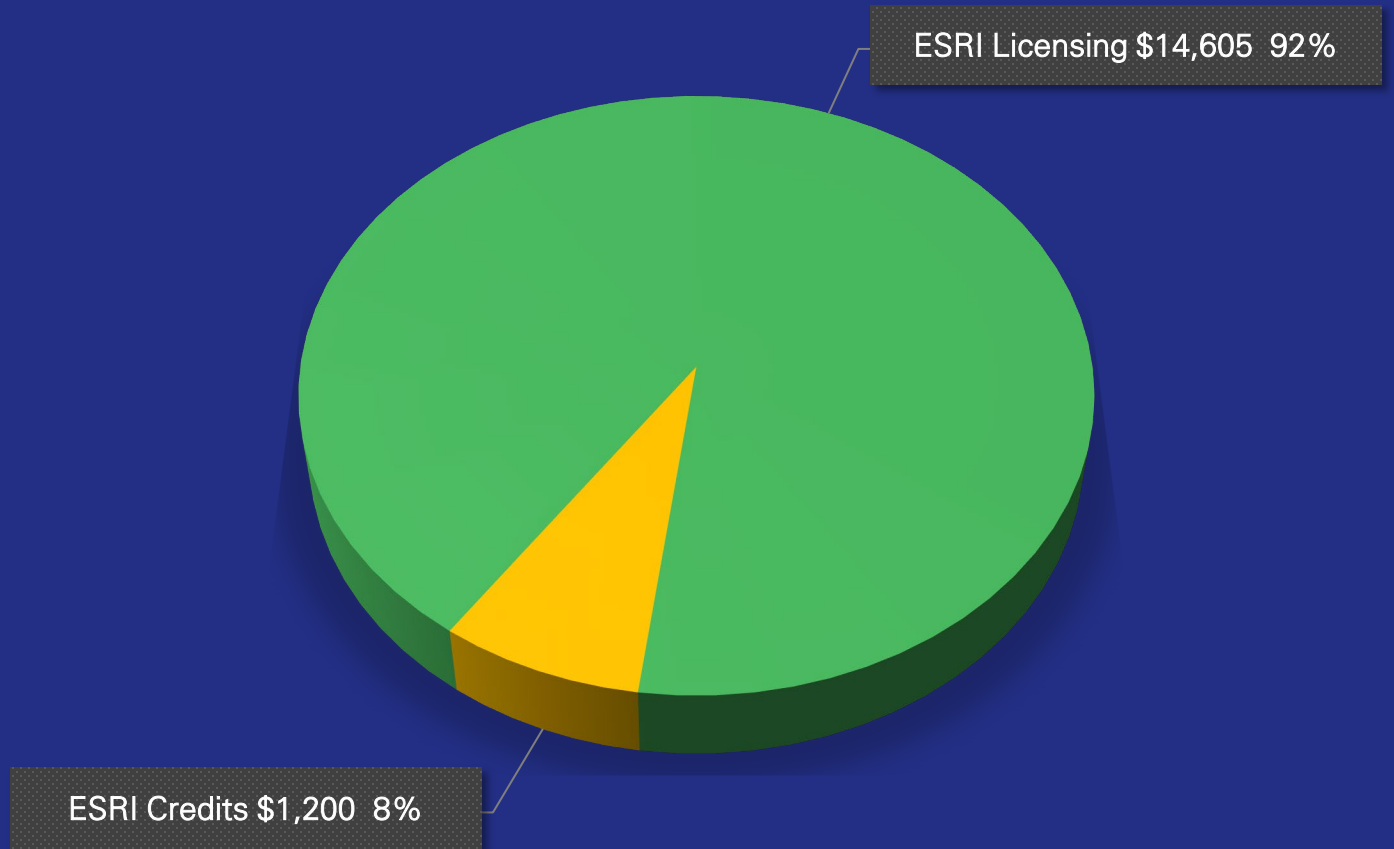
**Geographic  
Information  
Systems**





# Geographic Information Systems

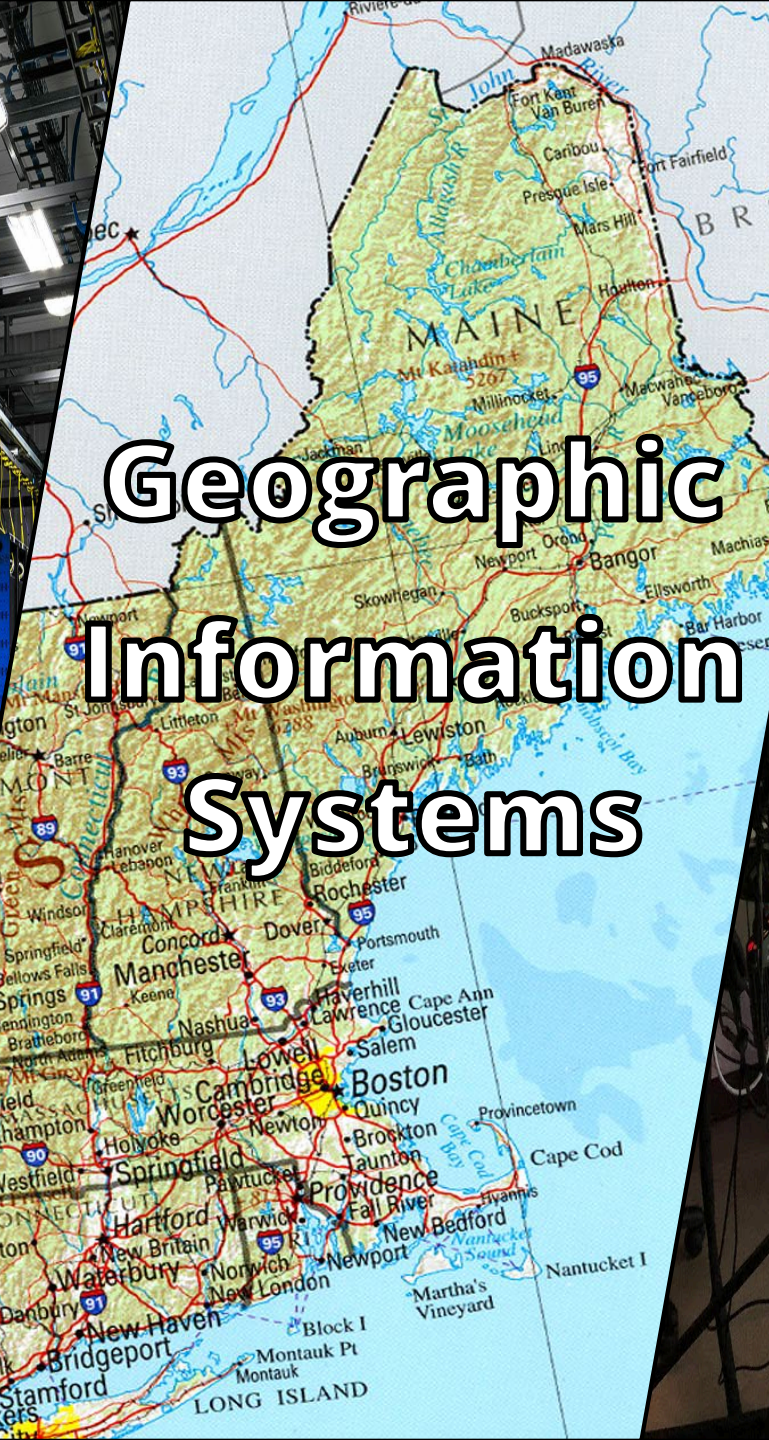
## *GIS Budget Request Breakdown*







**Information  
Technology**



**Geographic  
Information  
Systems**



**TV3**





## *Responsibilities*

- Operation of Town Cable Casting System
- Equipment Maintenance & Upkeep
- Meeting Production & Operations
- Town-Interest Story Production



# *Projects & Initiatives*

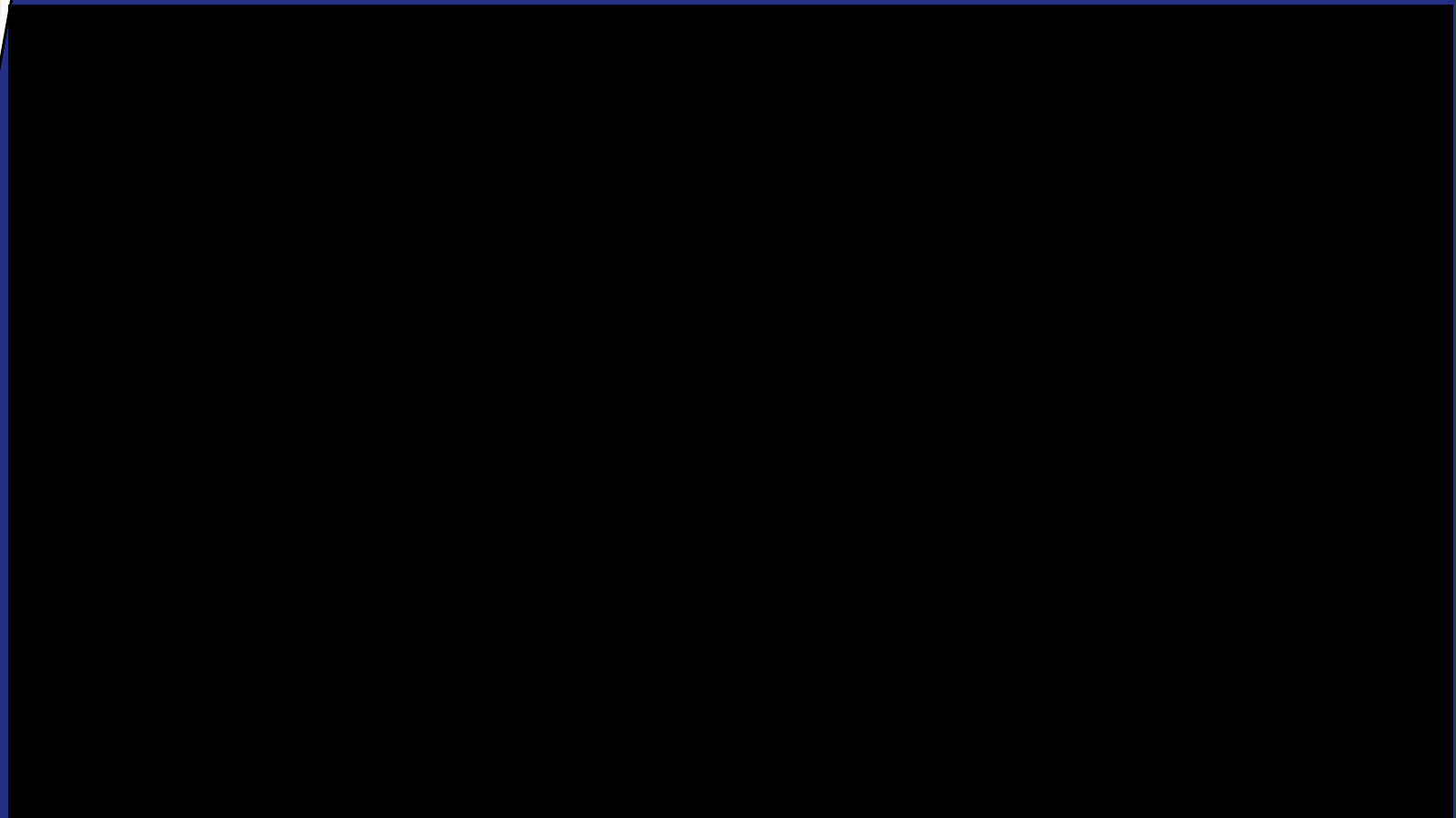
- 163 TV3 Shorts Produced
- Full Length Shows
  - Curtis Library Events
  - Parades
  - Town Presentations
- New Mainer Videos
- Expansion into Social Media
  - YouTube
    - Brunswick Fire Department EMS – 1,598 Views
    - Brunswick PD Cruiser Ride Along – 867 Views
    - Civil Air Patrol Meets Sea Cadets – 744 Views







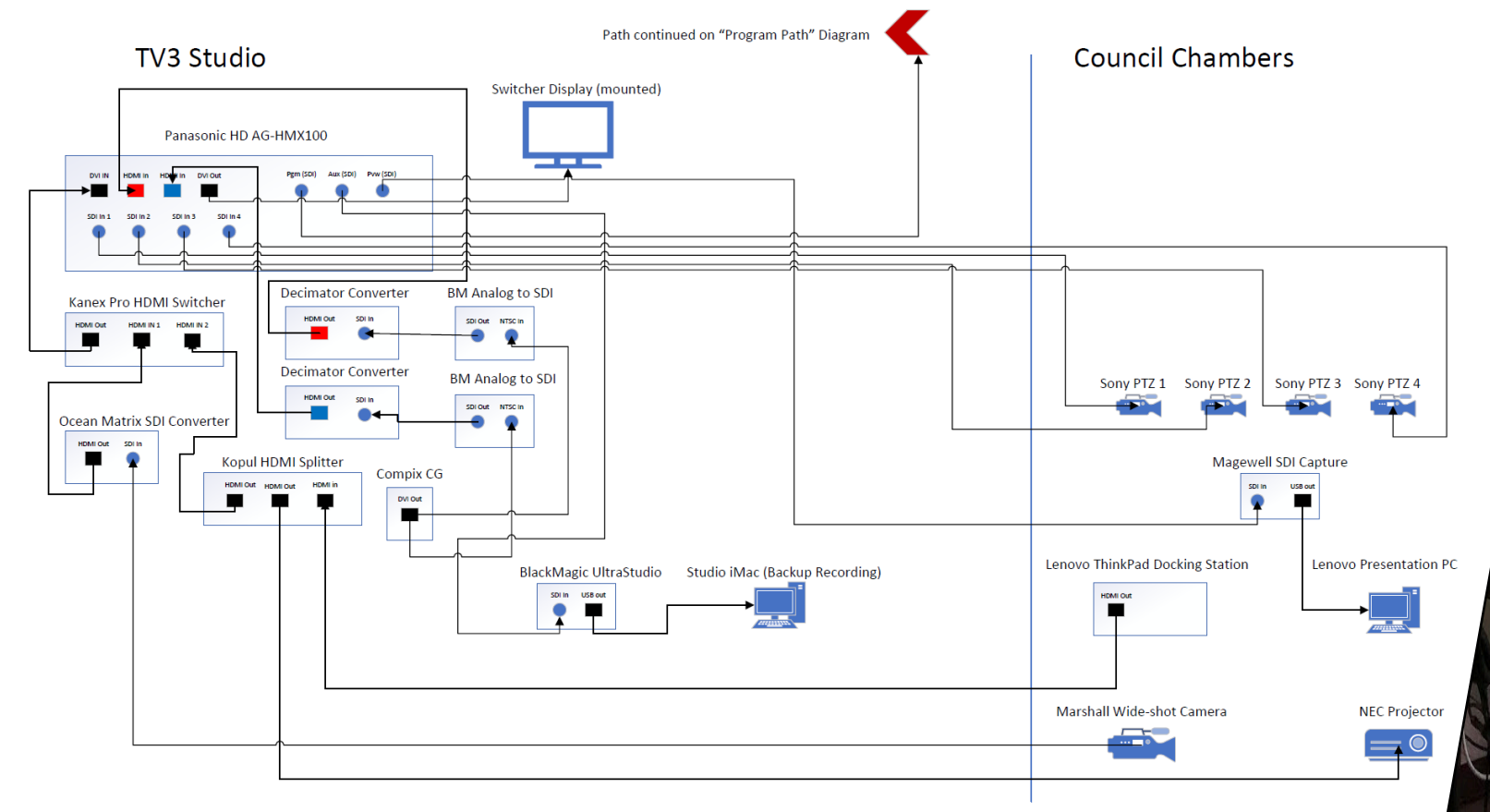
TV3





# Responsibilities – Video Path

## Brunswick TV3 Studio – Video

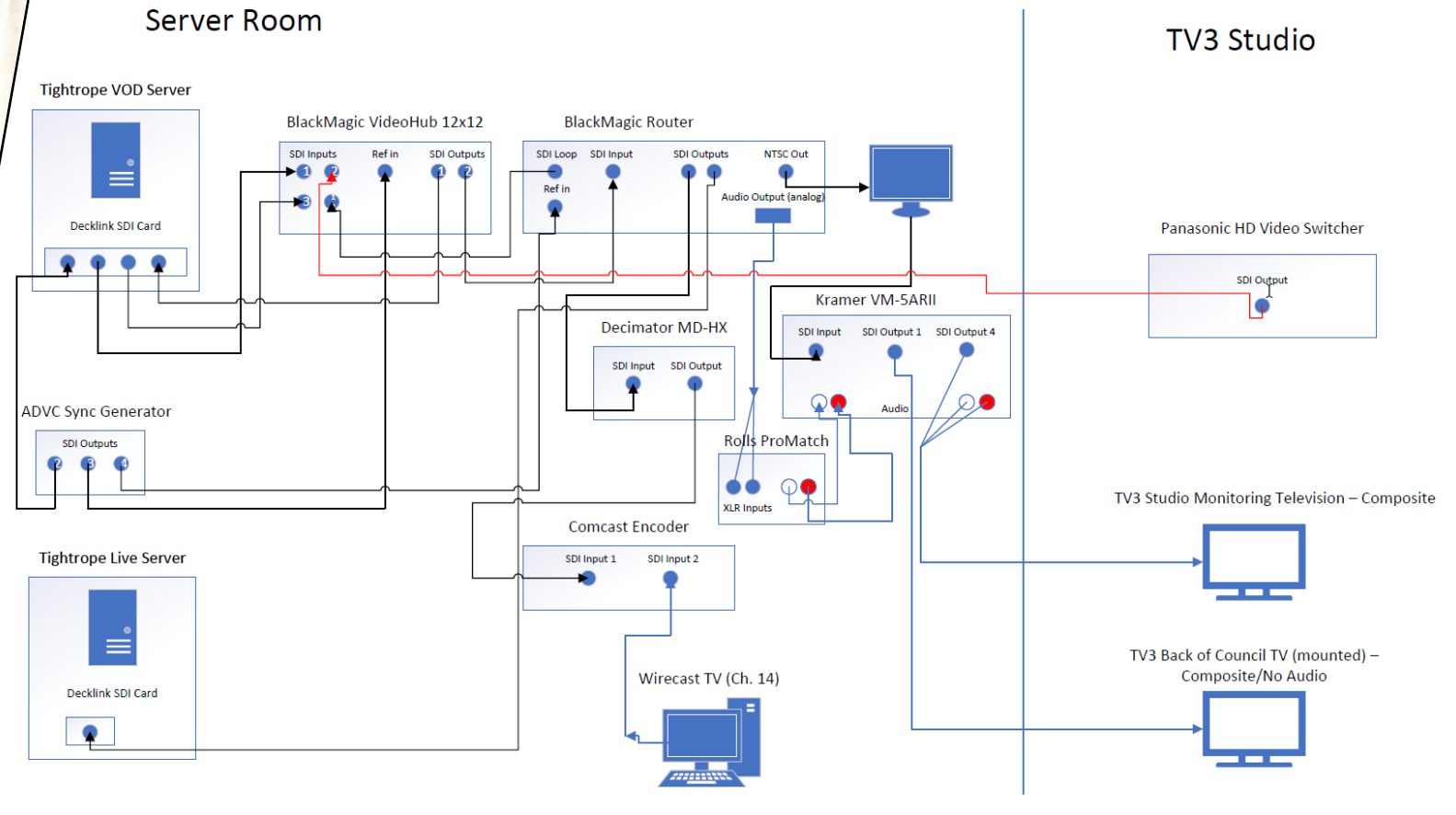




# Responsibilities – Program Path

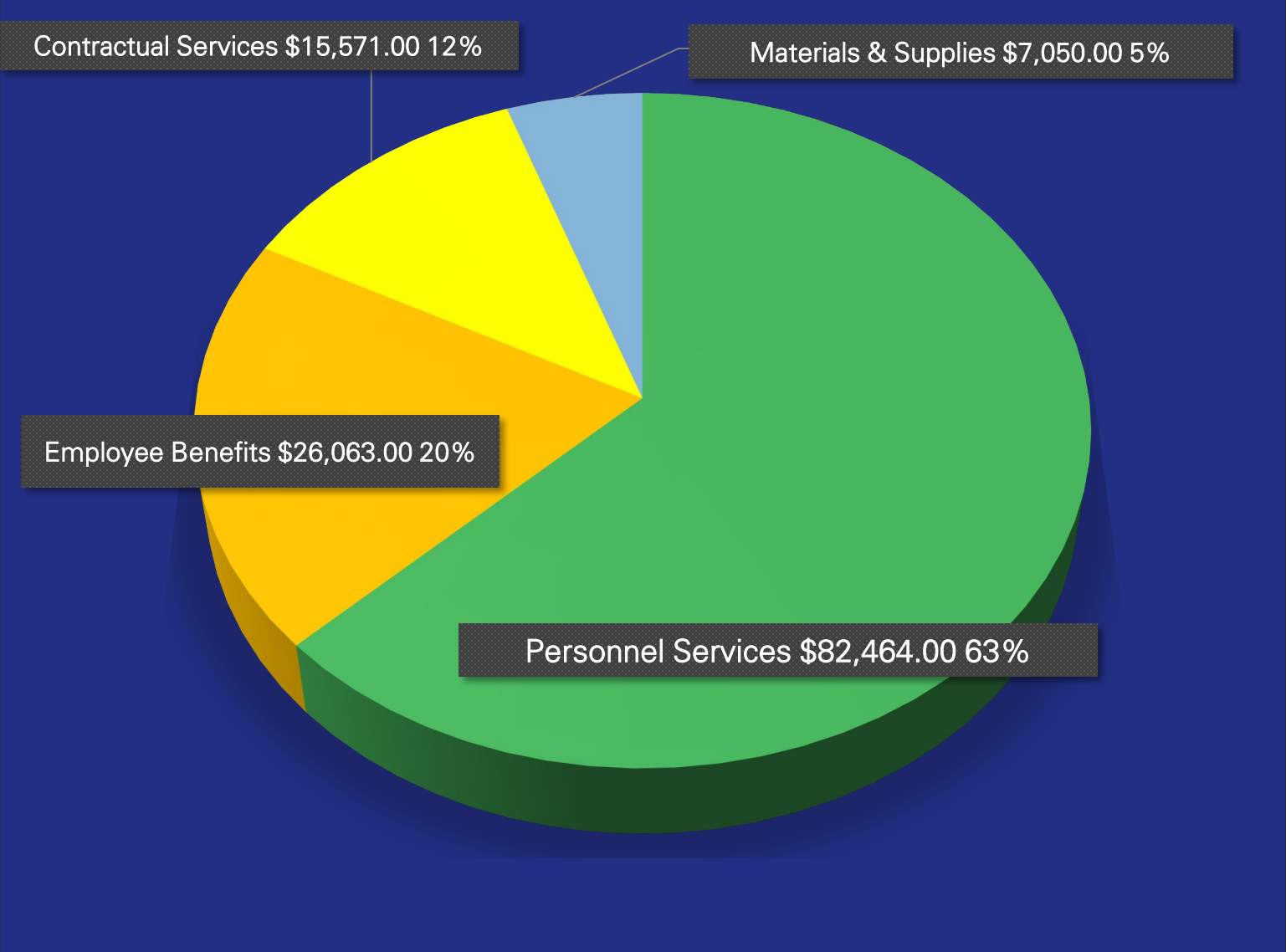
## Brunswick TV3 Program Path

TV3





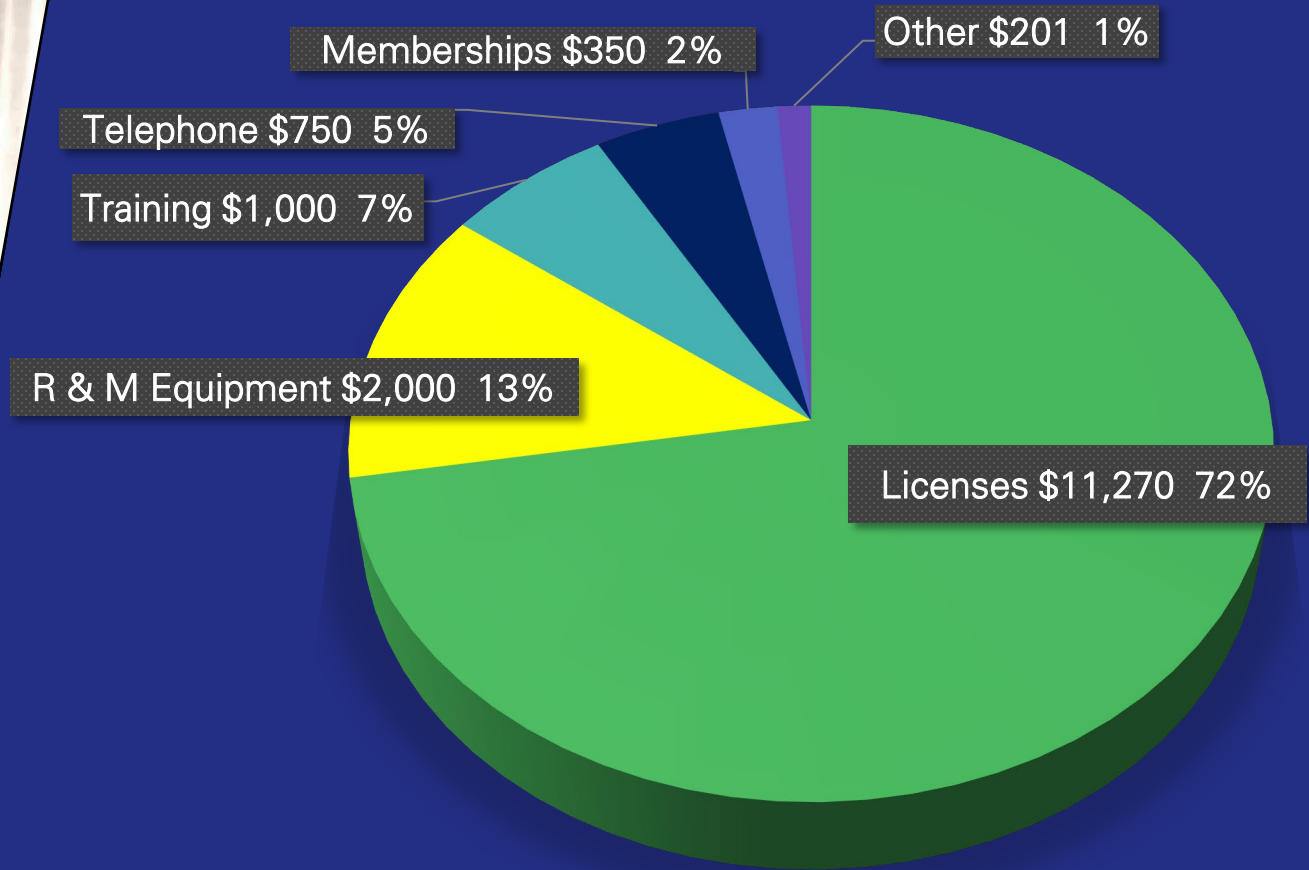
# Budget Areas







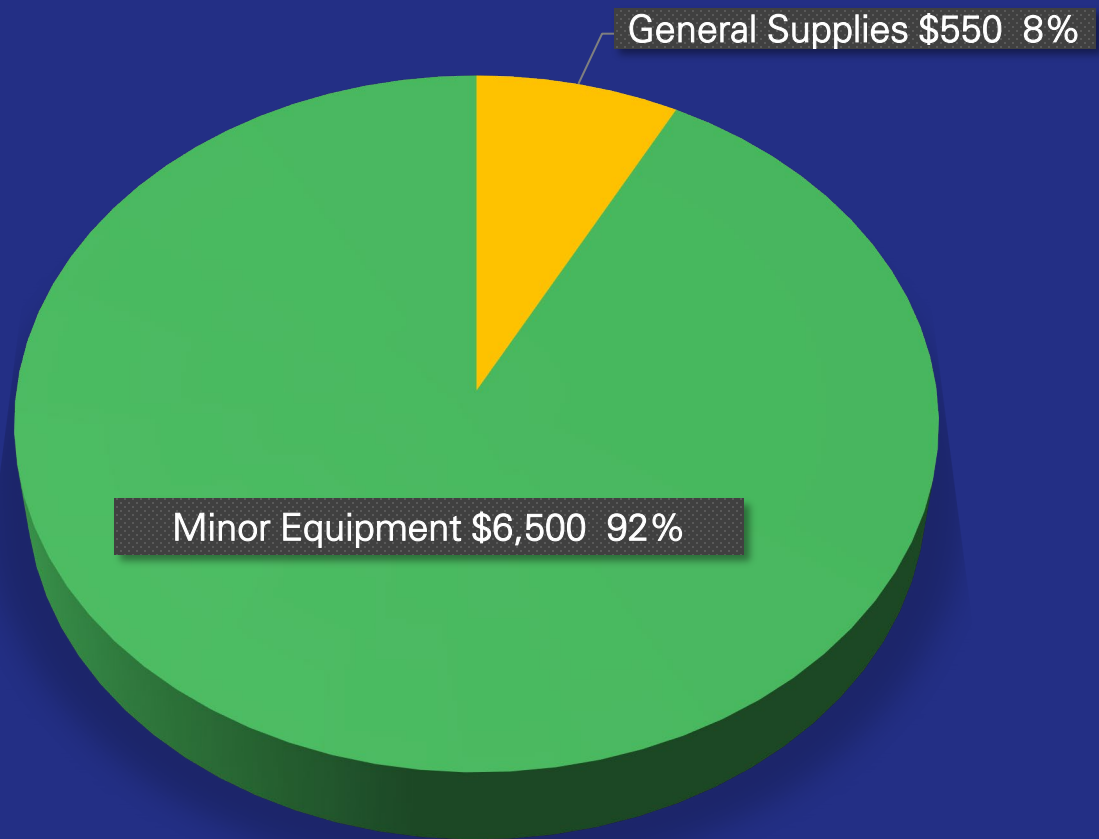
## *Budget Areas – Contractual Services*



Live Stream Software - \$3000



*Budget Areas – Materials & Supplies*



New Network Area Storage (NAS) - \$4000





**Thank you!**

**Questions?**