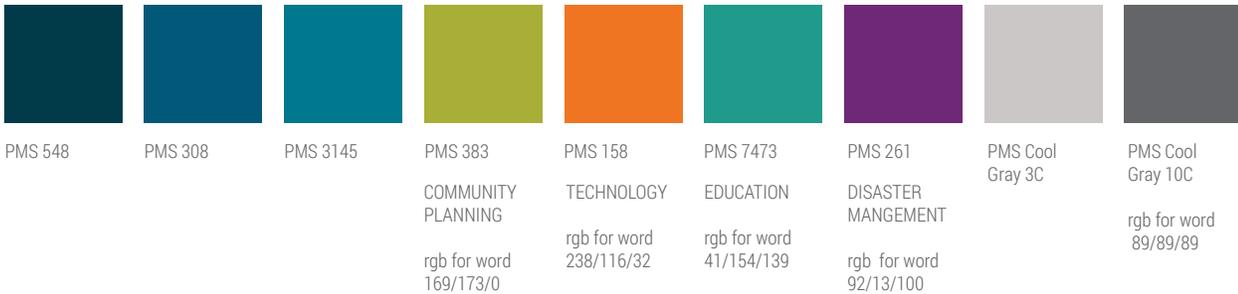




COLOR PALETTE:



FONTS:

<https://www.fontsquirrel.com/fonts/lato>

Lato Light  
Lato Regular

<https://www.fontsquirrel.com/fonts/roboto>

Roboto Condensed Light  
Roboto Condensed Regular  
Roboto Condensed Bold

<https://www.fontsquirrel.com/fonts/roboto-slab>

Roboto Slab Regular  
Roboto Slab Bold

IMAGES:

two-pager: size of image should be 8.5 wide by 2.75 high

single sheet: size of image should be 8.5 wide by 2 high

# FLOOD MITIGATION PLAN

DISASTER MANAGEMENT

Calvert County, MD



## ➔ PROJECT DETAILS

**DIFFICULTY:** Medium

**PRIME CONTRACTOR:** Vision Planning & Consulting (VPC)

**COST:** \$50,000-\$75,000

**DELIVERABLES:** A county-wide Flood Mitigation Plan document

**TIMEFRAME:** Five (5) Months

**CORE COMPETENCIES:** GIS Analysis, Consensus Building, Disaster Preparedness, Hazard Mitigation planning, Public Outreach and Education, Inter-Departmental Cooperation

**RESULTS:** The analysis shows Calvert County's flood-vulnerability beyond that of FEMA's DFIRMs, it also identifies flood-prone properties outside of the 100-year floodplain.

## ➔ PROJECT TEAM

Vision Planning & Consulting  
ESRGC, Salisbury University

## ➔ CLIENT CONTACT

David Brownlee, Calvert County  
Dept. of Planning and Building  
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Prince Frederick, MD 20678  
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Phone (410)535-1600 x2338

VPC was selected by Calvert County, Maryland to update its Flood Mitigation Plan. As VPC had developed Calvert's previous Flood Mitigation Plan, we had prior knowledge of issues pertaining to flooding from years past.

The project was funded by the Coast Smart Initiatives Grant from NOAA the Plan is consistent with the requirements of the 44 Code of Federal Regulations part 78.5 Flood Mitigation Plan Development and will become an appendix to the County-wide All Hazard Mitigation Plan, also being updated by VPC.

## PROJECT SUMMARY

Vision Planning & Consulting, in partnership with Eastern Shore Regional GIS Cooperative of Salisbury University, Maryland, delivers a comprehensive look at the flood vulnerability of homes and buildings in Calvert County, Maryland, as part of the Flood Mitigation Plan Update.

The VPC Team utilized FEMA's HAZUS-MH software to estimate the financial loss associated with specific levels of floodwater in the southern Maryland County. The analysis takes into consideration how far inland the water will go, as well as its height, to determine how much damage it could cause.

Cross referencing LiDAR (Light Detection and Ranging) elevation data with flood polygons of Digital Flood Insurance Rate Maps (DFIRM's) generated flood depth grids for areas based on the 10%, 4%, 2%, 1%, and .02% chance of flood occurrences in 2016, 2050, and 2100.

Various flood depth grids were overlaid with the building polygons, to determine which buildings fell in the flood zones. The building

layer was then laid over the various flood occurrence grids to determine which buildings were at risk for each recurrence interval.

Finally, to determine the total financial loss, the function of the building was used to estimate building value. The industry standard estimates for the contents are; one-half of the value of the residence, or 100% of the value of the Commercial building.

Specific mitigation actions include relocations, raising utilities, flood audits, public outreach materials, and stormwater management techniques, among others.

VPC worked closely with the Steering Committee members, residents in flood prone areas, and the public to educate them on flooding issues. Multi-agency coordination was key to the successful update of the two plans. Open Public meetings were held to educate residents and press releases were sent to maximize coverage.



# CUSTOM TECHNOLOGY SOLUTIONS

## DIFFERENTIATORS, CONTRACT VEHICLES, AND CERTIFICATIONS

- SBA 8(a) Program
- City of Baltimore Minority & Women-Owned Business
- Maryland State (MDOT) Minority Business Enterprise
- Prince George's County MBE
- Commonwealth of Virginia - Small, Woman-Owned, and Minority-Owned (SWaM) Business
- Howard County Equal Business Opportunity

## NAICS CODES

511210 - Software Publishers  
541511 - Custom Computer Programming Services  
541512 - Computer Systems Design Services,  
541618 - Other Management Consulting Services  
541690 - Other Scientific and Technical Consulting Services  
541890 - Other Services Related to Advertising  
541990 - Other Professional, Scientific, and Technical Services

## OTHER PERTINENT CODES

DUNS #781006254  
CAGE #4QTA3

Vision Planning and Consulting, LLC (VPC) provides the expertise to help you reduce risk, protect people, secure physical assets, and improve the economic well-being of your cities, counties, states and agencies. VPC is a woman- and minority-owned firm specializing in disaster management, planning, grant writing, public outreach, and web development.

VPC employs innovative communication techniques and intuitive web design principles that help build strong and lasting partnerships with the government, academia, businesses, and communities:

### GRANTS MANAGEMENT

- Data Analytics
- Data Visualization
- Grants Administration
- Technical Assistance
- Grants Modernization

### WEB DEVELOPMENT

- Web Solutions
- Custom App Development
- Systems Integration
- Mobile Compatible Sites
- Content Translations

### DATA QUALITY SOLUTIONS

- Data Enrichment
- Data Standardizations
- Data Conversion
- Data Consolidations
- Data Synchronization

### ➔ WE SPECIALIZE IN:

- Leveraging secure open-source software solutions to provide private companies, federal, state and local government agencies, and prime contractors with a mature resource for high quality information technology products and services.
- Providing sensible, scalable and sustainable technology solutions that maximize operational efficiency, bottom line, and future needs.
- Leveraging the latest technologies and software platforms to allow your Agency to achieve streamlined and flexible workflow and scalability that enables your goals and mission to grow and evolve.
- Facilitating and promoting continuous inter-departmental coordination and inter-agency cooperation.
- Engaging and educating community stakeholders about the positive impacts of being prepared to face disasters through extensive outreach efforts.
- Providing technical assistance to communities and developing action-oriented plans to improve community well-being.

## ➔ WEBSITE DEVELOPMENT

**PROJECT:** Emergency Preparedness Websites and Materials Design and Development

**CLIENT:** District of Columbia Homeland Security and Emergency Management Agency (HSEMA)

The District of Columbia focuses on providing preparedness materials, guidance, and news to residents in an informative and timely manner. VPC was involved in redesigning the HSEMA website to more accurately reflect HSEMA's emergency management programs, creating a comprehensive preparedness website (Ready DC) designed to function as a reference portal for District residents looking for emergency preparedness information, as well as developing a graphic design strategy that includes logos and guides to help District residents stay informed and prepared for all hazards. Additionally, the content was tailored for persons with Access or Functional Needs and limited/no English proficiency and was translated into six languages. All content is designed to be compatible with smart phone web readers, and other mobile software and hardware.

**PROJECT:** Peoples Law Library Website Development, Hosting, and Technical Support

**CLIENT:** Peoples Law Library - Maryland Judiciary

VPC team members developed a website for the People's Law Library for the Maryland Judicial using Drupal 7. The project entailed upgrading a previously-built site on Drupal 6, including porting all features, adding Solr Search, a responsive theme, and several enhancements. The site contains an extensive taxonomy of over 100 terms, and over 1000 pages of content. The site is multi-lingual, and supports English, Spanish, Chinese, Korean and French. The site can be viewed at [www.peoples-law.org](http://www.peoples-law.org).

**PROJECT:** Iknow LLC Website Development, Hosting, and Technical Support

**CLIENT:** Iknow LLC

Iknow LLC, a management and technology consulting and systems integration firm that helps organizations capture, organize, and apply their knowledge to improve performance brought on engaged a VPC staff member to build their website as the corporate presence of the company. The site has over 400 pages of content and exemplifies elegance, navigation, and organization of content. The site can be viewed at [www.iknow.us](http://www.iknow.us)

**PROJECT:** TSNN Website Development, Hosting, and Technical Support

**CLIENT:** Trade Show News Network

Trade Show News Network is the definitive news source for the trade show industry and has over 150,000 registered public users. This high traffic responsive design website gets 40,000 visits, 250,000 page views and consumes 40 GB of bandwidth per month. VPC team members were hired to migrate the site to Acquia, to enhance, support and then operate the site. Publicly added content is routed through workflow automation to content administrators for approval before being published. The site also features blogs by select authors and permits user comments. The site is built on Drupal and hosted at Acquia. The site can be viewed at [www.tsnn.com](http://www.tsnn.com).

## ➔ ONLINE TOOL DEVELOPMENT

**PROJECT:** NABEF Online Portal for Registration and Evaluation

**CLIENT:** National Association of Broadcasters Education Foundation

NABEF runs four educational programs and events for which they solicit applications online. The VPC Team was responsible for creating an online portal for judges that used an existing login account or another social media account login. The portal allowed Judges to review and grade the categories of applications assigned to them in a sequential manner. A simple summary dashboard was created to provide the current status of applications assigned, to be reviewed, etc. for judges upon login. The system is also capable of sending automatic reminders to Judges to complete their evaluations on time.

## ➔ CONFERENCE PLANNING TOOL

**PROJECT:** FICP Website Development, Hosting, and Technical Support

**CLIENT:** Financial & Insurance Conference Planners

FICP is an individual membership association for meeting planners employed within the insurance and financial services industry. FICP engaged a VPC staff member to re-develop their website on the Drupal platform. The site features a main section, and eight other sub-sections, each with their own look and feel, thus giving the appearance of independent micro websites. The site can be viewed at [www.ficpnet.com](http://www.ficpnet.com)