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| **SOLICITANTE** | **CENAPRED** | **PROYECTO DE INVESTIGACIÓN** | **Geovisualización del riesgo (Realidad virtual)** |

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| **N°** | **ACTIVIDADES** | **PLAZO** | **1-2** | **3-4** | **5-6** | **7-8** | **9-10** | **11-12** | **13-14** | **15-16** | **17-18** | **19-20** | **21-22** | **23-24** | **COSTOS** |
| **MESES** | **SEMANA** |
| **1** | **Actividad 1 Gestiones administrativas** | **$0.00** |
| 1.1 | Gestiones de cumplimiento al Oficio Circular no. SRACP/300/1022/2017, emitido por la Secretaría de la Función Pública. | **1** | **4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **$0.00** |
| 1.2 | Gestiones de autorización de procedimiento administrativo y/o jurídico aplicable, según se desprenda de los resultados de lo señalado en el punto 1.1. | **1** | **4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **$0.00** |
| 1.3 | Gestiones para dictamen favorable de la DGTIC | **2** | **8** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **$0.00** |
| 1.4 | Gestiones UG de Asuntos Jurídicos de la SEGOB y suscripción del instrumento. | **6** | **24** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **$0.00** |
| **2** | **Actividad 2. Diagnóstico de herramientas existentes para el modelado de realidad virtual en 3D** | **$1,800,000.00** |
| 2.1 | Elaborar un estudio comparativo sobre las herramientas existentes para el modelado de RV tanto basadas en código libre y/o propietario. | **3** | **12** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **$900,000.00** |
| 2.2 | Implementación de las herramientas evaluadas para su desarrollo en una versión piloto. | **8** | **32** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **$900,000.00** |
| **3** | **Actividad 3. Levantamiento de información y preparación de las maquetas para los escenarios** | **$1,800,000.00** |
| 3.1 | Levantamiento de modelos digitales de terreno, escaneo y fotografía de texturas y elaboración de maquetas 3D. | **10** | **40** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **$1,800,000.00** |

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| **SOLICITANTE** | **CENAPRED** | **PROYECTO DE INVESTIGACIÓN** | **Geovisualización del riesgo (Realidad virtual)** |

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| **N°** | **ACTIVIDADES** | **PLAZO** | **1-2** | **3-4** | **5-6** | **7-8** | **9-10** | **11-12** | **13-14** | **15-16** | **17-18** | **19-20** | **21-22** | **23-24** | **COSTOS** |
| **MESES** | **MESES** |
| **4** | **Actividad 4. Elaboración de dos escenarios de realidad virtual**  | **$400,000.00** |
| 4.1 | Elaboración detallada de dos escenarios de realidad virtual. Incluye configuración y puesta en punto, capacitación y soporte por 12 meses. | **10** | **40** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **$400,000.00** |

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| **Subtotal 1** | **$4,000,000.00** |
| **COPARTICIPACIÓN** | **$0.00** |
| **FOPREDEN** | **$4,000,000.00** |
| **TOTAL PROYECTO DE INVESTIGACIÓN** | **$4,000,000.00** |

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| **Calendario de Aportaciones**  | **MES 1** | **MES 2** | **MES 3** | **MES 4** | **MES 5** | **MES 6** | **MES 7** | **MES 8** | **MES 9** | **MES****10** | **MES** **11** | **MES 12** | **MES 13** | **MES 14** | **MES 15** | **MES** **16** | **MES 17** | **MES** **18** | **MES 19** | **MES 20** | **MES 21** | **MES 22** | **MES 23** | **MES** **24** | **TOTAL** |
|  |  |  |  |  |  |  |  |  |  | **$900,000.00** |  |  | **$** |  | **$900,000.00** |  | **$1.800.000.00** |  |  |  |  |  | **$400,000.00** | **$4,000,000.00** |

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| **Gastos de Operación y Supervisión** | **(f)** |
| **1** | **No aplica** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

El presente Proyecto de Investigación para la Prevención fue aprobado en la Quinta Sesión Extraordinaria del Comité Interno de la Subcuenta de Investigación para la Prevención del Fondo para la Prevención de Desastres Naturales (Se anexa acta).