**CCNY College-wide Research Vision (CRV) Initiative Concept White Paper**

**[CRV PROJECT TITLE]**

# Project Team:

**Principal Investigator**: Dr. Jane Doe, Professor

**Department**: [Department] | [School/Division], The City College of New York

**Other Key Personnel**: Dr. John Smith (BME/GSOE); Dr. Katie Chen (Psychology/CPS)

# Project Concept Description: (Maximum 2 pages)

**Keywords**: Global Warming, Weather, ...

**Objective**: Identify objectives in each of the areas to be supported by this initiative, and clearly identify how these objectives address an ultimate common goal. Note the key point for this initiative is to seek a holistic effort to address a common problem, not to support a collection of independent, piecemeal research efforts.

**Approach**: Identify approaches in each of the areas to be supported by this initiative, and clearly outline the benefits of the integration of these efforts.

**Outcomes**: What are the outcomes in each area and how are they connected to the common goal?

**Expected Products:** (Books, Journal Articles, and other significant multi-media products expected)

What are your expected products from this initiative in terms of quantity and quality? Identify tangible not abstract products. For example,

“Dr. Jones is working on a book project on global warming impacts to the rural farming communities in South East Asia. The research outcomes from this initiative can provide valuable, credible and tangible data to be incorporated into this book. This book project will be supported in part by this initiative and completed by 2027.”

If no such tangible items, at a minimum provide a concrete plan on generating high-impact products with supporting information. For example,

Dr. Doe published on average 4 high-impact journal articles a year in the last 5 years. She is expected to produce at least 2 articles in high impact journals attributed to the initiative efforts.

Or,

Under the support and collaboration of this CCNY initiative, Dr. Bello of media art will produce a photo-journalism and short documentary exhibition on extreme weather impact, to bring public awareness to the severity and urgency of this issue, and use the event to also disseminate the CCNY Initiative’s finding and publicize the research.

**Merits**: While merits can be discussed in each area independently, this section also needs to provide a convincing argument as to why achieving these independent merits would lead to the common merits of the entire initiative.

**Impact**: What are the expected impacts in each area and in the common humanity good.

# Milestones:

**Months 1-6:** *Download, install, and test public-domain algorithms, to ensure the team is familiar with all the pieces of technologies; Develop flight test tasks and scenarios for validations later in Year-1 to demonstrate the success of this project; Integration of AI algorithms with drones. This is to ensure the team establishes a means to upload and update AI algorithms onto the drones whenever an updated software is developed*

**Months 7-9:** *Flight tests per task specifications developed in* ***Months 1-2****.*

**Months 9-12:** *Compilation of flight test data; Submission of annual technical report; Discuss Year-1 results and Year-2 development plan with AFRL program officer.*

# Budget (Maximum Budget $200K):

Personnel Costs: (please list key positions and estimate budget required)

* Key Personnel (PI, Co-PI, senior personnel)
* Research staff:
* Administration staff:
* Students:
  + PhD
  + MS
  + Undergrad

OTPS Costs: (major items, such as supplies, travel, etc. Subcontract and consultant costs are discouraged)

Note: There is no IDC, and no equipment costs are allowed. Necessary equipment will be considered as top priority from future GRTI allocations and/or other equipment grants.