Appendix E - Partnership funding calculator

FCRM Partnership Funding Calculator for Flood and Coastal Erosion Rick Management Grant In Ald (FCRM GIA)

| Version 8 Janua | ary 2014 | | | | | | | | | |
|---|-----------------|-------------------|-------------------------|--------------------|---------------------|---|---|---|---|--|
| Project Name | | | Oxford FAS | | | | | | | |
| Unique Project | t Number | | ENVIMSE50 | 0177 | | | | | | |
| All figures are in C's Key Input cells | | | | | | | | | | |
| Figures in Elius to be entered onto Medium Term Plan | | | | | | | | | | |
| SUMMARY: prospe | GIA funding | | | | | Scheme Benefit to Cost Ratio 3.64 to 1 Effective return to texpeyer 23.47 to 1 Effective return on contributions 23.73 to 1 | | | | |
| Raw Partnership Funding Score | | | | | | | - | | | |
| External Contribution | quired to achie | ve an Adjusted Sk | core of 100% | | 63,439,464 | (2) | Cell (2) shows the minimum arrow | ount of contributions and/or reductions in raise the Adjusted PIF Score to at least 100%. | | |
| Adjusted Partnership | x** (PF) | | | | 100% | (3) | Further increases on this will imp | prove this acheme's chances of an FCRM GIA anned sevings and contributions should be | | |
| PV FCERM GIA tow | front costs o | f this scheme (P | V Cost for Appro | val) | 47,403,546 | (4) | entered into cells(3,10,12) and o | | | |
| 1. Scheme details Risk Management Authority type of asset maintainer | | | | | | | 0 | Yes (5) | | |
| Duration of Benefits (years) | | | | | | 100 | is evidence evaluable that a Strategic Approach has been taken, 1900 (7) and that double counting of benefits has been avoided ? | | | |
| PV Whole-Life Benefits: | | | | | | 1,112,388,394 | (13) | All costs and benefits must be on a Present Value (PV) Whole- | | |
| PV Costs | | | | | | | Ten | Life basis over the Duration of Benefits period. Where | | |
| PV Appraisal Costs PV design & Construction Costs | | | | | | 101,063,546 | | | | |
| Sub Total - PV Cost for Approval (appraisal, design, construction) 101,053,54 | | | | | | | | | | |
| PV Post-Construction (PV Whole-Life Costs: | | | | | | 14,379,881 115,433,427 | | The total value of any necessary contributions will depend on whether | | |
| PV Contributions and | | | | | | | _ | means. | landed through revenue FCRM GiA, or by other | |
| PV Local Levy secured to date 12,790,000 (PV Public Contributions secured to date 32,360,000 (| | | | | | | | NOTE: This scheme is to be mail | intained by the EA (ref cell 5). Any contributions nd both up-front costs (cell 11) and future | |
| PV Private Contributions secured to date | | | | | | 6,100,000 | (10) | needed (ref cell 2) are to help fund both up-front costs (cell 11) and future ongoing costs (cell 12) and should be entered into cells(14-17). | | |
| PV Faiding from other Environment Agency functionalisaurose secured to date 24/00.0002 (17) PV 17bal Contributions assumed to date 55/850.0002 (18) | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 2. QualiMing benefit | Its under Ou | fcome Measu | re 2: household | s better protected | d against flood ris | sk | | | | |
| 2. Qualifying benefits under Outcome Measure 2: households better protected against flood risk Number of households in: Defow After Charge due to acheme | | | | | | | | | | |
| 20% most deph/ed awas 44 - 50 20 - 6 22 0 2/4/ most deph/ed awas 50 1/2 27 20 5 < | | | | | | | | | | |
| 80% least depixed areas <u>354 359 307</u> 934 759 580 570 381 -114 At Moderate Significant Very Moderate Significant Very | | | | | | | | | | |
| nink nink süpstfoart nink nink süpstfoart nink nink süpstfoart nink nink süpstfoart nink Annual demages avoided (D), compared with a household at low nink <u>100 000 1,000</u> | | | | | | | | | | |
| Change in household damages, in: Per year Over lifetime of scheme Qual, benefits (discounted | | | | | | | | | | |
| 20% most deprived areas | | | | | 20,100 | D | | £ 2,010,000 | OM2 (20%) -C 600,254 | |
| 21-40% most deprived areas -C 00% least deprived areas C | | | | | 98,40 88,20 | | | | OM2 (21-40%) E 2,938,555 OM2 (60%) -E 2,633,949 | |
| Cualifying benefits under Outcome Measure 3: households better protected apainst coastal erosion | | | | | | | | | | |
| Number of household | de in: | | | B | dore | | Demages p | er household avoided: | | |
| 20% most deprived areas 21-40% most deprived areas | | | | | | Annual demoges avoided £ 0,000 £ 0,000 Loss expected in 50 20 years | | | | |
| 00% least deptived areas | | | | | Medium-term loss | | Present value discounted b | e of Year 1 loss (i.e. fint year damage ased on when loss is expected) | a, <u>6 1,184 6 3,015</u> Long-term Medium-term kosa losa | |
| Change in household | d damagea, ir | | | | fear 1 loss avoided | đ | | Over lifetime of acheme: | Qual, benefits (discounted): | |
| 20% most deprived areas | | | | | | 7 | | c . | OM3 (20%) E - | |
| 21-40% most deprived areas E 00% least deprived areas E | | | | | | d l | | t - 1 | OM3 (21-40%) E - OM3 (60%) E - | |
| 4. QualiMing benef | Its under Ou | fcome Means | re 4: statutory e | m/mmmtal ob | lastions met | | | | | |
| Payments under: | | _ | | | | | | Assumed benefits per unit: | Qual. benefits (discounted): | |
| OM4e OM4b | 06.30 | Hectares of n | et intertidal habit | | | £ 15,000 OM4 £ 99,000 £ 50,000 OM4 £ | | | | |
| OM4c | L | Kilometres of | protected river in | mproved | | | | £ 80.000 | OM4c E | |
| 5. Qualitying benef | ita ariaino h | om the overa | Escheme, for en | try into the Medi | um-Term Plan | | | | | |
| OM, deprivation: | | Qual benefit | | Payment rote: | | | | contribution | | |
| OM1 OM2 | 275,004 | 2 | 1,112,585,041 600,254 | 5.56 | p in the £1 | | 2 | 61,810,280 | | |
| | 21-62% | c | 2,938,666 | 30.0 | | | £ | 881,568 | | |
| OMS | Land 10% | د د | 2,633,949 | 20.0 45.0 | | | 4 6 | 628,790 | | |
| | 21-62% | 2 | - | 30.0 | | | 2 | - | | |
| OM4 Total | | 2 | 99.000 1,112.388.394 | 100.0 | | | <u>r</u> | 99.000 61,993,943 Maximum for Outor | man delivered. The exterior of the end | |
| is alighte for may be leas. | | | | | | | | | | |
| Sensitivity Testing, it is importent the users of this calculator approaches the implications on funding from changes to input data which may become necessary as the project alweight and before information is evaluate. Rive typical tests are provided below. Users should calculate the appropriate tests are provided and how been to use the information with all trace that may be increased in the project. | | | | | | | | | | |
| | | | | | | | Raw Score | Contribution for | | |
| 100% Scare (80) | | | | | | | | | | |
| As somatic block 54% 53, 534 (54) | | | | | | | | | | |
| | | | | | | | | 110,394,510 | | |
| Senath-Ry 3 - Change In CMD - 50% of households in Medium Term loss (Reform) may already be In Long Term loss 54% 50,438,494 | | | | | | | | | | |
| Sensibility 4 - Increase Curation of Benefits by 25% Sensibility 5 - Reduce Duration of Benefits by 25% | | | | | | | 194X | #N/A 53,445,390 | | |
| | | | | | | | | | | |
| END OF WORKSHEET | | | | | | | | | | |

Notes

The estimated PV cost from CH2M included the maintenance costs to maintain current system. In the PF calculator these have been included as an adjustment in cell (17) as the cost does not need to be covered by the Oxford FAS project. The funding for this work is included elsewhere in current EA budgets.

The figure for private contribution in cell (16) includes the present value of the estimated highly likely contributions.