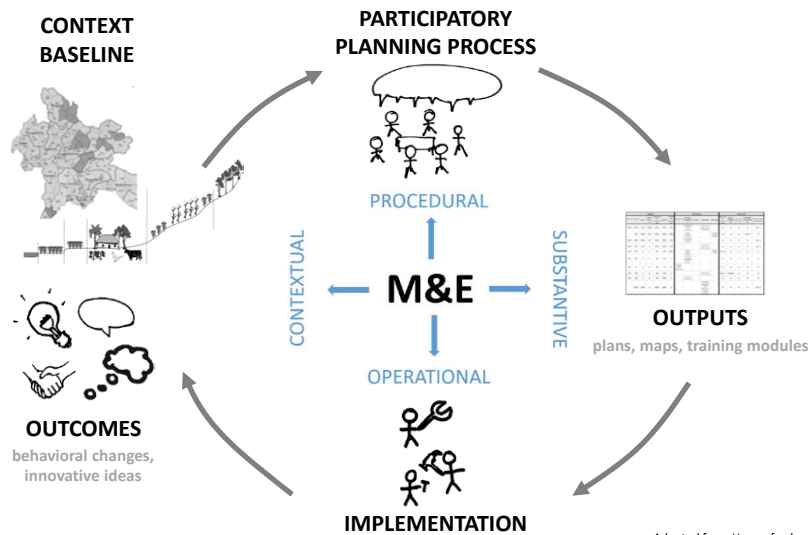
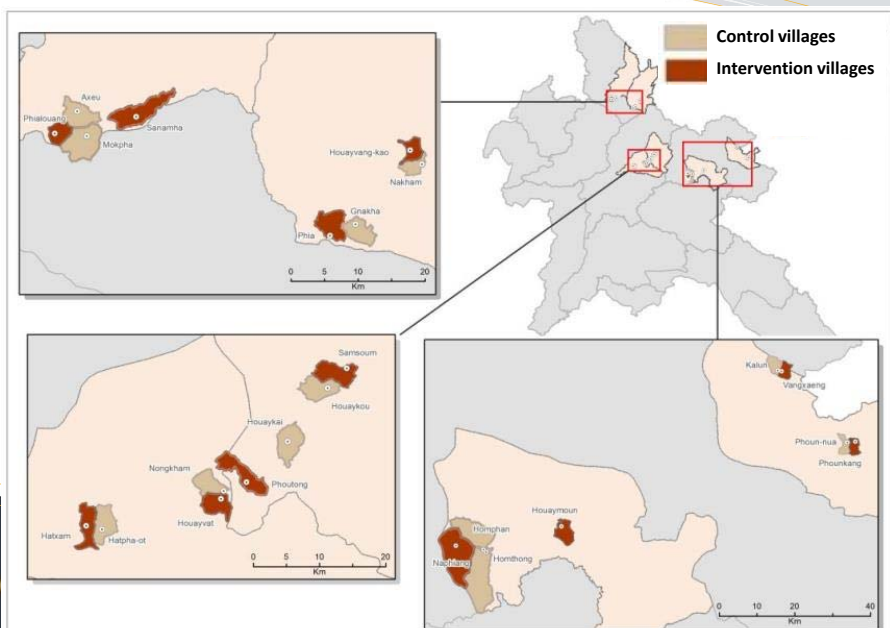


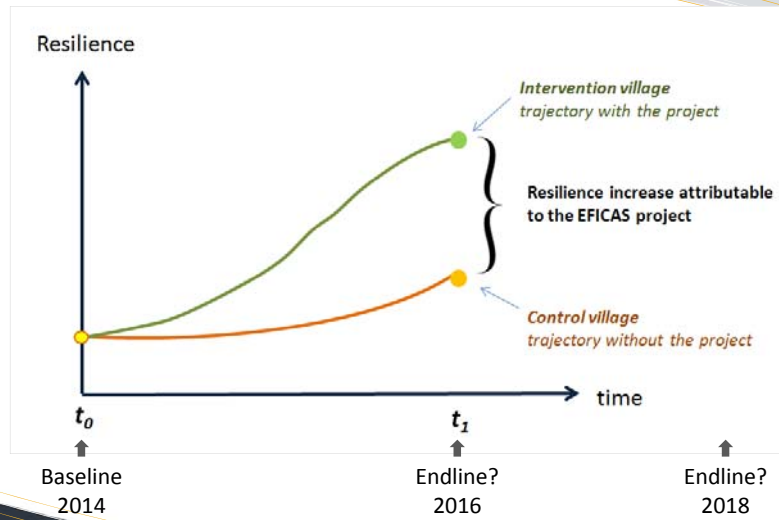
Impact monitoring and evaluation: an integral part of a village transformative process



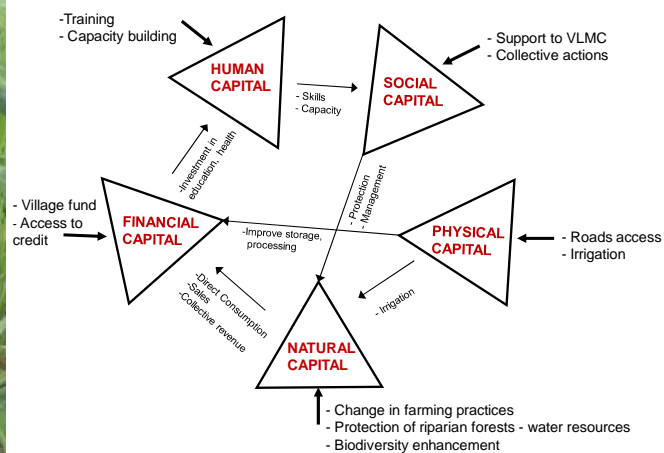
Impact monitoring-evaluation system



Impact monitoring-evaluation system



Measuring changes in livelihoods





Measuring changes in livelihoods

LANDSCAPE SCALE

- land use patterns
- land use intensity

VILLAGE SCALE

- general village information
- problem census

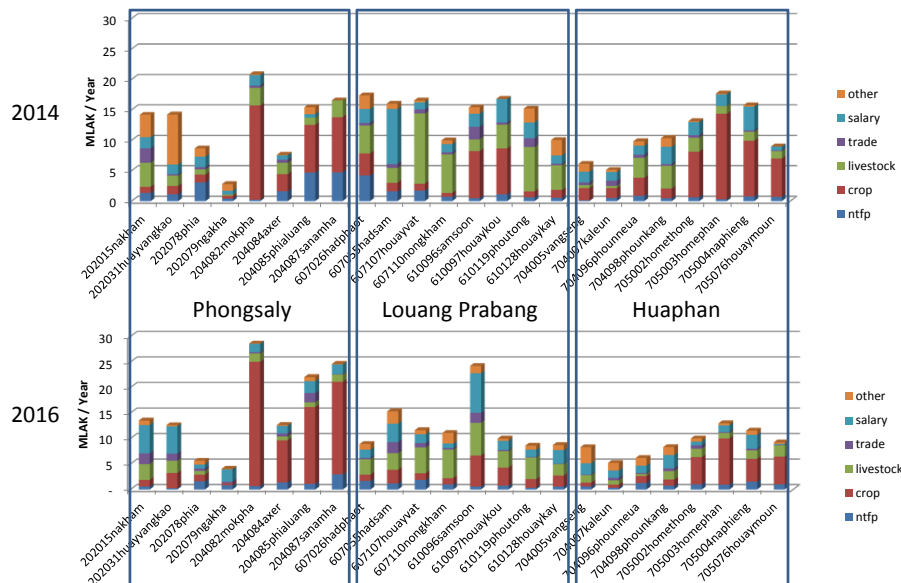
HOUSEHOLD SCALE

- income
- agricultural practices

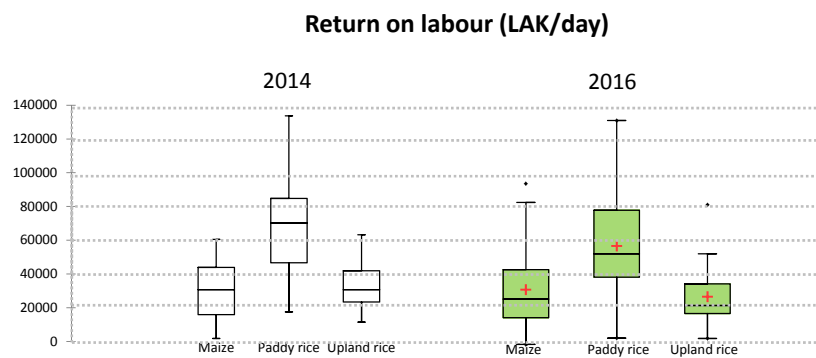
INDIVIDUAL SCALE

- family composition
- education

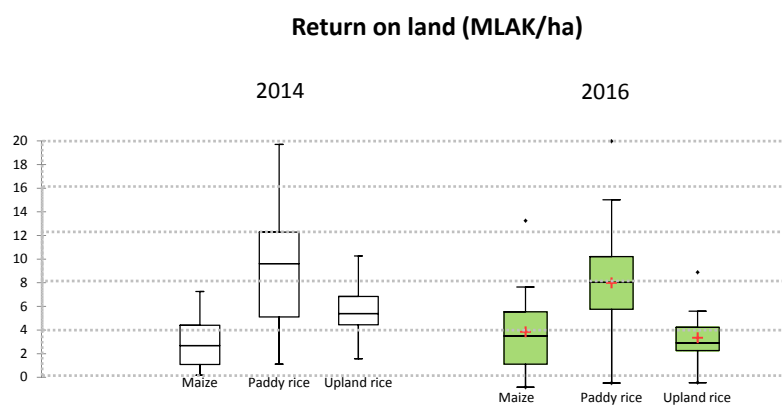
Change in income distribution



Cropping system performances

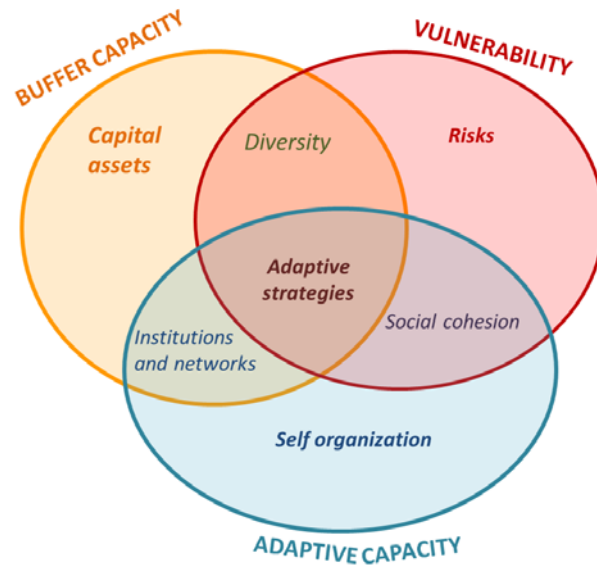


Cropping system performances



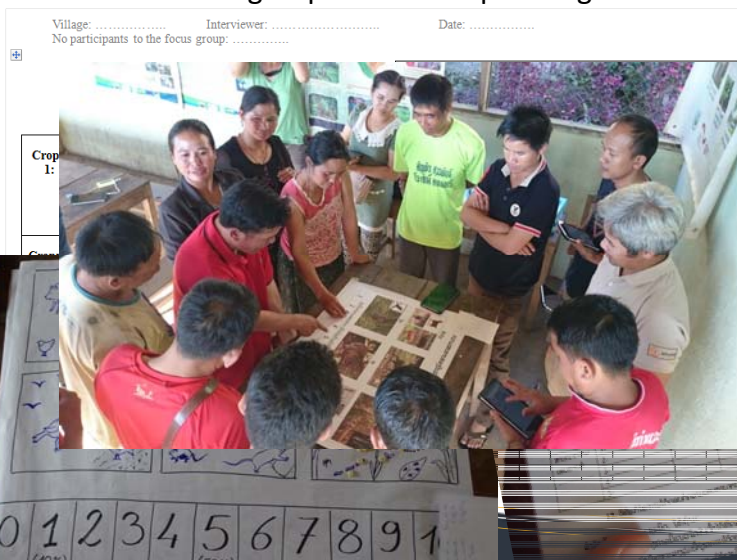


Measuring impact on resilience



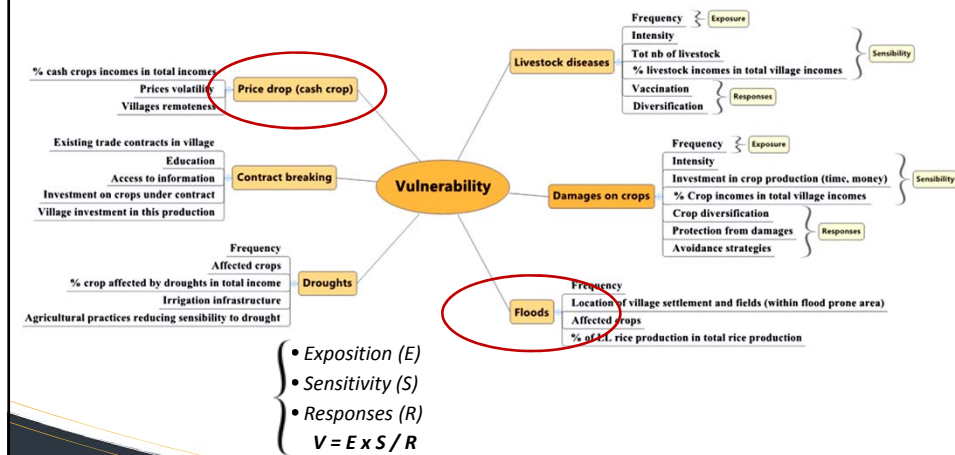
Bottom-up selection of SMART indicators

e.g. exposure to crop damages



*Specific
Measurable
Assignable
Realistic
Time-related*

Vulnerability indicators



Vulnerability variables

Hazard	Questions	Variables	Variable name
Flood - storm	Exposure_Flood or extreme rain episode frequency	No floods or extreme rains over last 10 years	v_fs_flood_frequency
Flood - storm	Exposure_% of village territory with slope>25°	% village surface with slope >25° in 'Data about villages_GIS.xlsx File'	% of village territory with slope>25
Flood - storm	Exposure_Village location on the slope	0/1 : 0=unexposed: village in uplands, no paddy surfaces. 1=exposed, village in lowlands.	Village location on the slope
Flood - storm	Sensitivity_% of LL rice production in total rice production	Avg on all HH [(rds_paddy_rice_prod / (rds_paddy_rice_prod + rds_upland_rice_prod))]	Avg HH % paddy rice
Flood - storm	Adaptive Response_Reactions to floods - land slides	Avg [(f_reaction_n (production area + village settlement + road + lowland area + village) * weight (see note [4] below) for n from a to f	v_fs_reactions

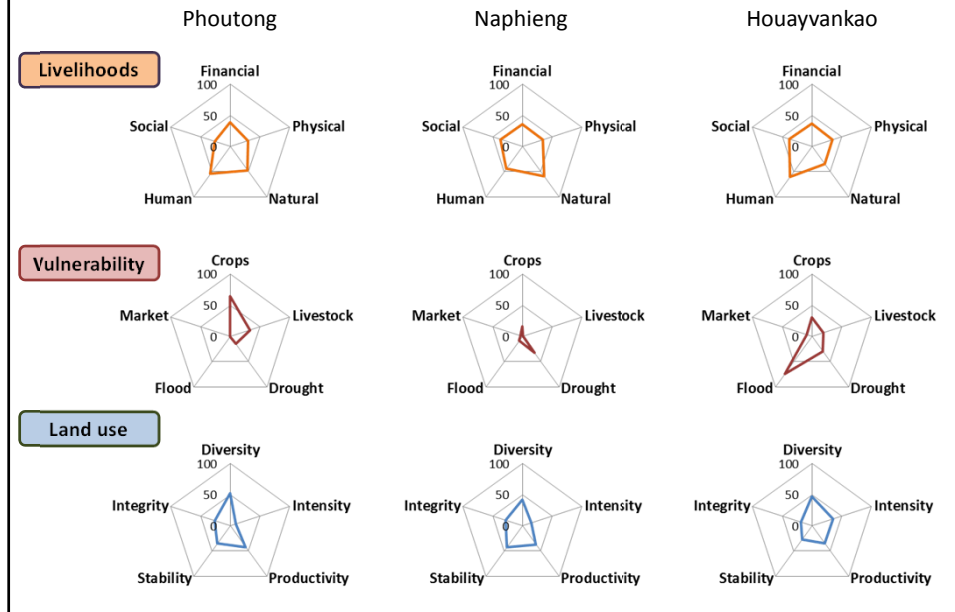
Vulnerability variables

Hazard	Questions	Variables	Variable name
Market instability	Sensitivity to price fluctuations, Price volatility weighted by importance of farm products	$\frac{\text{Avg}(\text{price_volatility_ntfp (cf. [5] below)} * \text{rds_income_ntfp} + \text{price_volatility_rice} * \text{rds_income_rice} + \text{price_volatility_cash} * \text{rds_income_cash} + \text{price_volatility_livestock} * \text{rds_income_livestock})}{(\text{rds_income_ntfp} + \text{rds_income_rice} + \text{rds_income_cash_crop} + \text{rds_income_livestock} + \text{rds_income_handicraft} + \text{rds_renting_services} + \text{rds_trade} + \text{rds_salary} + \text{rds_other_income})}$	v_mi_price_volatility
Market instability	Exposure to concessions, % of village agricultural land given away to concession	con_surface_company_area / village agricultural area	v_mi_agriculture_land
Market instability	Exposure, % informal contracts	$\frac{\text{cb_contracts_documents} * \text{cb_signatory_a} * 1 + \text{cb_signatory_b} * 0,8 + \text{cb_signatory_c} * 0,5 + \text{cb_signatory_d} * 0,2}{\text{cb_contracts_documents}}$	v_mi_informal_contracts_perc
Market instability	Adaptive Response, No of cash crops in the village / total no of crops	No crops in s_selling_name / No of cp_crop_name	v_mi_cash_crops_perc
Market instability	Adaptive Response, Indebtedness	Avg all HH (rds_pending_debts) / cash income	v_mi_%_debts
Market instability	Adaptive Response, Diversity of income sources	IDSR (diversity of income sources + levels of reliance on the different sources) GINI Index	Diversity of income sources
Market instability	Adaptive Response, Education	Average education level of HH-heads	v_mi_education_level_hhh

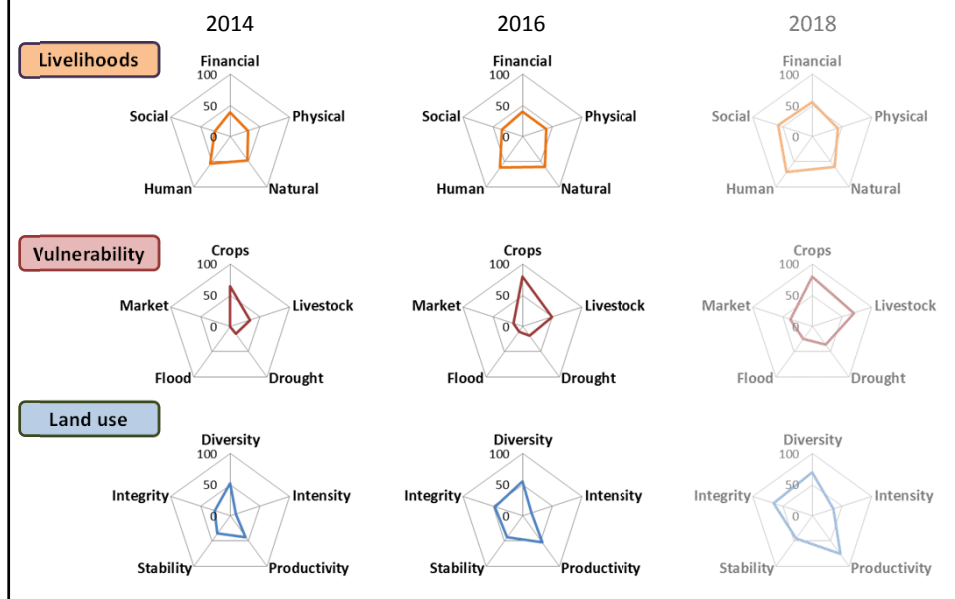
Indicators 2014

Themes	Indicators	Variable		Data	Entries			
3	15	115		325	15600			
Resilience	Assets	axer	hadphaot	hadsam	homephan	homethong	houaykay	houaykou
Livelihood	Financial	30,54	39,11	34,15	34,99	33,14	30,81	30,07
	Physical	36,93	22,14	22,98	35,13	27,30	14,62	21,90
	Natural	46,55	55,64	48,93	55,45	46,00	48,61	49,62
	Human	31,14	48,77	49,68	33,88	36,36	35,27	47,88
	Social	24,09	56,25	24,14	40,17	27,46	16,67	11,91
Vulnerability	Crop damages	36,01	32,80	24,60	15,68	15,87	44,00	38,26
	Livestock diseases	1,30	2,06	0,87	1,85	4,41	53,79	5,42
	Drought	19,99	9,27	8,06	43,44	95,97	11,53	19,61
	Flood - storm	0,00	0,00	2,53	7,54	3,72	0,00	0,00
	Market instability	7,51	74,83	12,26	4,67	0,00	0,00	15,22
Landuse	Diversity	40,93	55,06	54,44	37,10	34,15	48,95	48,92
	Intensity	35,95	8,23	10,72	28,25	22,48	27,29	24,47
	Productivity	12,27	45,64	29,69	51,56	51,39	19,98	34,92
	Stability	34,22	43,44	44,15	34,13	62,24	39,69	35,94
	Integriv	26,67	65,68	39,78	24,00	23,33	31,11	25,78

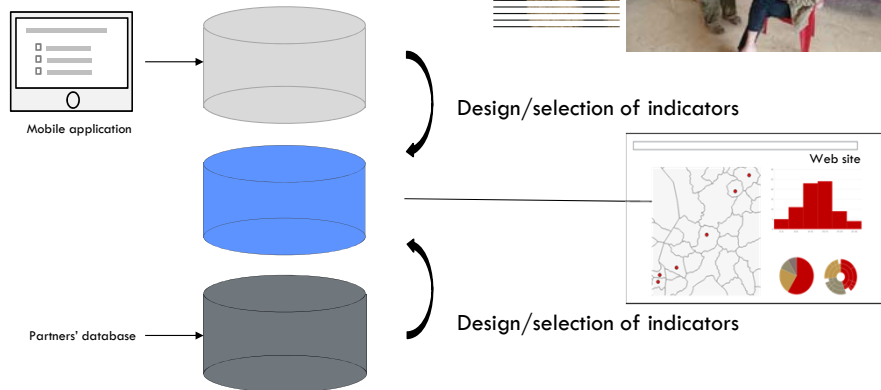
Village comparisons 2014



Change analysis (coming soon...)



DATA MANAGEMENT



Thank you for your attention!

For more information:

www.eficas-laos.net

