

How to work with INDICATORS

A collection of typical objectives in
VSD/TVET projects and programmes
with sample INDICATORS of success

Introduction

Indicators ¹ add measurable targets to objectives. Objectives which are formulated in general language (“narrative”), need indicators in order to become specific. Only objectives which are specified by means of indicators are manageable, can be used to negotiate staff performance and responsibilities, can be monitored and become an object of accountability. Sloppily formulated objectives (such as “better employment”) lack such qualities, and their accomplishment is almost always certain with little or no effort. Good indicators are based upon **s**takeholder dialogue, are **m**onitorable, **a**ttached to a strategic objective, **r**ealistic and thus achievable, related to a **t**arget group and have a **s**chedule for interim milestones and an end-of-project accomplishment (expressed with a ‘SMARTS’ acronym).

Project objectives are typically arranged in a strategic array (called ‘logframe’ or ‘results framework’) where they express a ‘ladder’ of means and ends. It is common practice to work with three levels, where a high level **GOAL** ² addresses an overall desirable development, which often serves as political justification of a project or a programme. In Switzerland’s development strategies goals are related to poverty reduction, justice and equality of (hitherto) disadvantaged groups of people.

OUTCOMES are the intended effects which describe the advantages which a target group (beneficiaries, clients, users, right holders) shall be able to realize. In SDC’ strategies, outcomes are related to improved gainful economic activity, higher household income and improved living conditions.

OUTPUTS are the services (or goods) which are to be provided to a target group. They are deemed necessary or at least helpful for the target group to bring about the intended outcomes. In SDC’s strategies outputs center around enhanced competencies, employability³, and the generation of business opportunities. It is often useful to distinguish between two kinds of outputs:

1. Direct **DELIVERABLES** as the final and immediately useable services which the target group is entitled to obtain (free or for a fee); in VSD projects the deliverables concern typically training measures (programmes, courses or learning at work, encompassing complete cycles (all the way from admission to certification) and job placement services, whereas
2. **INTERNAL RESULTS**, are the provisions, facilities and intermediate steps needed for successful delivery. Typical recipients of internal services are teachers, managers, developers etc...

1 In logframe terminology: “objectively verifiable indicators” (OVI); in other management tools often called “Key Performance Indicators” (KPI) or “Key Success Indicators”.

2 Goals are far reaching and a single project or programme normally just contributes to the goal. Goal achievement needs concurrence and synergy of several projects, policy measures and other contributing factors (often outlined as assumptions).

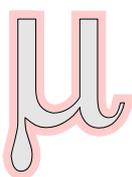
3 In international labour statistics employment is used as a comprehensive term encompassing wage-employment, self-employment and productive work of helping family members. The crux of the ‘official’ employment categories is that they do not contain a quality element and thus cannot bring out problems of under-employment, precarious or abusive employment.

2

A further breakdown of outputs will lead to **ACTIVITIES**. Activities do not get indicators, but are specified by duration, dependency and the allocation of resources. ⁴

In the following tables we will provide sample objectives for different types of projects along with a number of suggested indicators. We will distinguish TVET (or VSD) ⁵ projects according to their level of intervention:

Micro-level projects provide direct training services (through a school, center, training-on-the-job or a combination of different learning venues); micro level projects may work with one or several providers; programmes or courses can be formal, non-formal or informal; they can be geared to school leavers, to working persons or to unemployed or underemployed job seekers; training purposes can be initial employment (wage employment), self-employment, re-employment (after re-training) or an employment career or promotion (as a result of further training).



Meso-level projects provide services to training providers as inputs to the training process; these can include occupational standards, programme development, staff development, regulations, accreditation, assessment, funding, blue prints of training venues, or linking and matching services. Typically meso level projects operate for the benefit of all or a specified sub-group of providers; the services could be free of charge, subsidized or be available at market prices. Providers may be compelled to make use of such services or request them voluntarily. Meso level projects offer the tools for **QUALITY ASSURANCE**.



Macro-level projects improve strategy and frameworks under which meso- and micro level providers operate; they may pertain to policy formulation, legislation and regulations for the sector. In more concrete terms they can address such issues as strategic planning, the development of national qualifications, of overall funding instruments and the installation of regulatory bodies. Often macro-level projects aim at the harmonization of TVET historically grown “patch-works” across various ministries, the corporate sector and donor agencies.



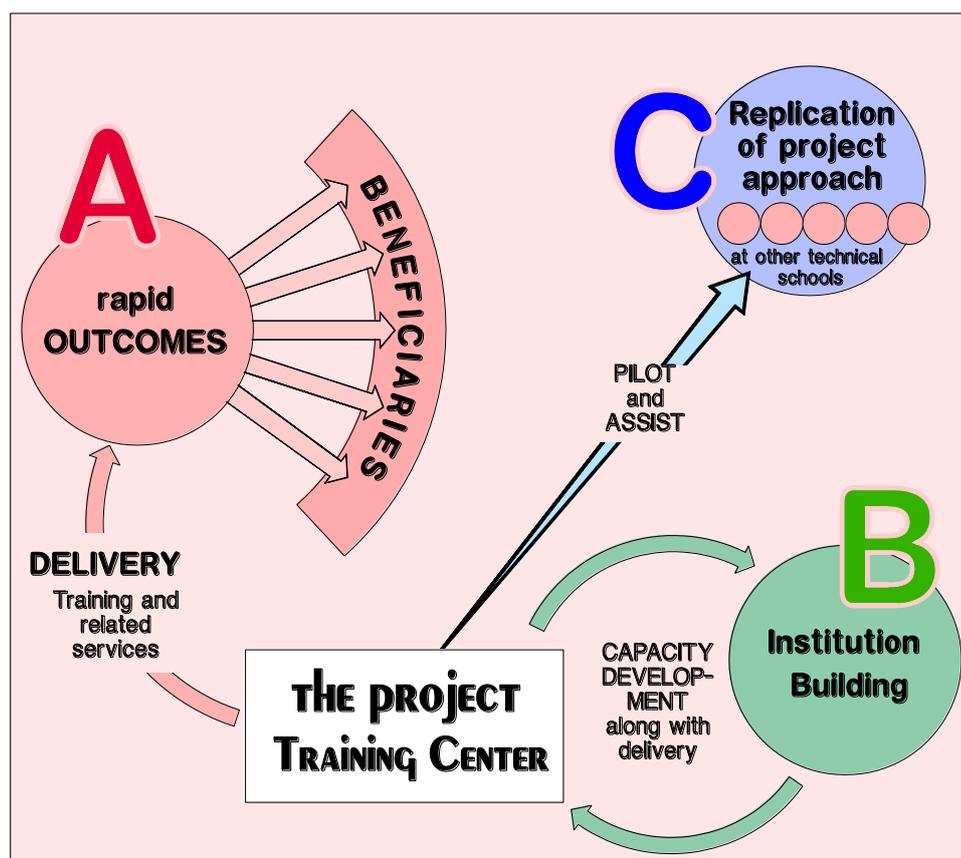
Often (but not necessarily) TVET programmes combine projects on different intervention levels in order to generate a more consistent direction, unleash synergy and remove obstacles and bottlenecks.

⁴ Activity planning will lead into the realm of project planning (as is evident in GANTT charts and network diagrams). Here, strategic objectives should appear as milestones, and indicators should help define interim milestones so that the networks are well structured (with branches and nodes) and allow planners to with a critical path approach (CPM).

⁵ The term VSD (Vocational Skills Development) is used by SDC. It refers to a broad-based, flexible approach to promote the development of vocational skills and competences which can be acquired through different pathways: through school-based and workplace-based education and training, within and outside the formal education system, including a modular approach that is context relevant e.g. practice in the workplace and self-learning. At SDC VSD it is conceptually broader than TVET (or VET). TVET is used as the more comprehensive term, spanning all types of technical education and vocational training (formal, non-formal and informal) and including all relevant ISCED levels (up to level 4, but excluding tertiary education). VSD, with its typical focus on non-formal or informal delivery and its focus on lower ISCED levels, as to express inclusion, equity and sometimes special measures to admit, sustain, graduate and follow-up disadvantaged target groups, is regarded a subset of TVET.

Apart from the macro-meso-micro paradigm we propose to classify projects according to their thrust in the following way:

- A. Most projects aim at an immediate outcome for specified target groups. **Training delivery** in order to increase trainees' chances of (safer) employment and (better) income is the focus of such projects. Such projects are characterized by short "gestation" periods, i.e. the time it takes from the start of the intervention until the first batch of trainees is turned out.
- B. Other projects use a longer time frame and aim at **building** up capable and sustainable **institutions** which would, in the longer run, deliver training (A) in a continuous, expanding and responsive way.
- C. Another type of project might pursue a strategy where a systemic effect would be triggered by means of piloting an innovative training project (A) and foster its **replication**.



Type A projects may contain elements of type B and type C, depending on intended growth, sustainability and system-wide impact. Consequently, when designing a project or programme objectives and indicators from all three types may be combined; see example on the left.

4

The following overview provides pointers to objectives and indicators typical for each of the project types. For each project type and strategy level a table is provided which will offer:

- 1 A selection of typical sample OBJECTIVES
- 2 An array of sample INDICATORS for each objective (dimensions only; not elaborated)
- 3 Some remarks to the usage of suggested indicators and their measurement
- 4 One fully elaborated INDICATOR (as example).

Overview of available tables (point and click):

Project Type strategy level	Focus: TRAINING DELIVERY			Focus INSTITUTION BUILDING	Focus REPLICATION
	micro level	meso level	macro level		
high level GOAL	1.1	2.1	3.1	4.1	5.1
OUTCOMES	1.2	2.2	3.2	4.2	5.2
OUTPUTS (deliverables)	1.3	2.3	3.3	4.3	5.3
OUTPUTS (internal results)	1.4	2.4	3.4	4.4	5.4

The collection of objectives and indicators contained in these tables should be seen as a snapshot of what the authors could find in their own areas of work and by checking out the neighbours' gardens and some of the literature. Such a collection is inherently incomplete and can never be free of errors. It is for project strategists, designers, implementers and M&E personnel to find their own suitable set of objectives and indicators. The following tables should be regarded as "food for thought". Probably, there are lots of additional indicators out there which deserve being included in this collection. In contrast some that are included may not be good enough to survive. In order to discuss the quality and coverage of the indicators with a broader audience and to get hold of undiscovered good ideas, it might be possible to create an appropriate forum somewhere in the Internet.

Indicator Tables

1.1 GOALS OF TRAINING PROJECTS (micro level)					
#	OBJECTIVE	SUGGESTED INDICATORS		comments	sample
1	target group (former trainees) and their families are better off; target group has come-out of poverty level	<input type="checkbox"/> escape from poverty level (using official thresholds) <input type="checkbox"/> income differential <input type="checkbox"/> standard of living <input type="checkbox"/> array of household durables <input type="checkbox"/> store of foodstuff <input type="checkbox"/> savings <input type="checkbox"/> location of house <input type="checkbox"/> type, quality of housing <input type="checkbox"/> number of school-going children <input type="checkbox"/> availability of working capital <input type="checkbox"/> education of children (level/expenses)		typical empirical method: tracer studies; problem: high cost and low data reliability; try alternatives: invite old boys/old girls through media, offer prizes, investigate visitors at center; usual rule: you need a comparison group in order to establish attribution; choice between "before-after" and "with-without" comparisons	"After 1 year of graduation average income is >25% above that of control group."
2	companies employing ex-trainees realize higher productivity of labour	<input type="checkbox"/> company profits up <input type="checkbox"/> company market share up <input type="checkbox"/> company product quality up <input type="checkbox"/> customer complaints down <input type="checkbox"/> down-time of production lines lower <input type="checkbox"/> equipment availability up <input type="checkbox"/> company investments up <input type="checkbox"/> demand for more trained persons up <input type="checkbox"/> number of subsidiaries up		typical empirical method would be a comparative analysis of marginal productivity of labour; problem: nearly impossible to do; try instead: comparative case studies	"Number of rejected work pieces down by 25% one year after training of work force."
3	community life enhanced where former trainees live	<input type="checkbox"/> less out-migration <input type="checkbox"/> natural age pyramid (no loss of youth) <input type="checkbox"/> better communal infrastructure <input type="checkbox"/> shack / proper housing ratio lowered <input type="checkbox"/> more involvement in local community decisions <input type="checkbox"/> unemployment level down <input type="checkbox"/> level of crime down <input type="checkbox"/> youth activities up <input type="checkbox"/> community voice: training for our kids		try: photographic comparative assessment (before : after or time series)	"One new communal infrastructure project per year realised."
4	micro-enterprise (informal) sector as a whole strengthened	<input type="checkbox"/> informal sector associations formed <input type="checkbox"/> associations form apex/umbrella bodies		There is an argument, whether this is a desirable objective, or whether the "informal" sector should turn „formal" in the long run.	"Provincial umbrella organisation of informal sector associations formed 5 years after project start."

1.2 OUTCOMES OF TRAINING PROJECTS (micro-level)					
#	OBJECTIVE	SUGGESTED INDICATORS		comments	sample
1	wage-employment improved	<input type="checkbox"/> ex-trainees entering in jobs <input type="checkbox"/> ex-trainees doing relevant work <input type="checkbox"/> employment conditions improved <input type="checkbox"/> duration of employment up <input type="checkbox"/> companies prefer ex-trainees to others <input type="checkbox"/> companies become long-term clients <input type="checkbox"/> companies request on-campus interviews <input type="checkbox"/> kids of staff apply for training <input type="checkbox"/> participants ready to pay (share of) fees		<p>Try innovative tracer studies (invite ex- trainees using mass media rather than tracing them with "detectives");</p> <p>it should be combined with promotional activities in order to raise cost-benefit.</p>	"6 months after graduation 50% the formerly jobless participants are placed into jobs."
2	more self-employment new micro businesses more owner-operators	<input type="checkbox"/> ex-trainees set up own businesses <input type="checkbox"/> ex-trainees' businesses survive <input type="checkbox"/> ex-trainees take in family members <input type="checkbox"/> ex-trainees return for more services <input type="checkbox"/> family kids apply for training <input type="checkbox"/> greater diversity of business services		<p>advisable: build a long standing constituency for the project, use every tracing effort for marketing more services of the project!</p> <p>Mind, that an increase in self-employment may just be forced by too few vacancies in the formal sector; self-employment is not always necessarily the desired outcome...</p>	"25% of all supported enterprises buy project services at least once per year."
3	small enterprises up and running (definition: small enterprises are potential employers)	<input type="checkbox"/> partnerships of ex-trainees start-up <input type="checkbox"/> ex-trainees found enterprises <input type="checkbox"/> small enterprises survive <input type="checkbox"/> small enterprises provide employment <input type="checkbox"/> entrepreneurs return for more support <input type="checkbox"/> small businesses obtain start-up loans <input type="checkbox"/> small businesses expand <input type="checkbox"/> pioneers make others follow (crowding in)			"50% of newly created enterprises start paying tax after 1 year."
4	corporate production problems solved (attributed to company staff returning from further training)	<input type="checkbox"/> product quality up <input type="checkbox"/> production process improved <input type="checkbox"/> production cost reduced <input type="checkbox"/> workforce more flexible (= can perform variety of jobs) <input type="checkbox"/> returning staff promoted <input type="checkbox"/> returning staff better paid <input type="checkbox"/> demand for more staff upgrading <input type="checkbox"/> companies ready to pay course fees <input type="checkbox"/> companies pay cost covering fees <input type="checkbox"/> kids of company clients apply for training <input type="checkbox"/> staff development schemes appear <input type="checkbox"/> fewer trouble shooting from external service technicians necessary		<p>conduct customer satisfaction surveys; as a rule these should ALWAYS be coupled up with more marketing efforts and follow-up services from the side of the project; avoid purely research-driven visits at companies</p>	"% of products rejected by quality assurance dropped by 50%."

1.3 OUTPUT / DELIVERABLES OF TRAINING PROJECTS (micro-level)					
#	OBJECTIVE	SAMPLE INDICATOR		comments	sample
1	school leavers turned out ready for initial employment	<input type="checkbox"/> passed exam <input type="checkbox"/> trade-tests taken <input type="checkbox"/> passed through external testing (RPL) <input type="checkbox"/> parents sent more kids <input type="checkbox"/> employers give affirmative feed-back <input type="checkbox"/> participants pay course fees happily <input type="checkbox"/> participants recommend course to peers		<p>Problem: Project's own exams will measure own success. This may be misleading or lead to "cheating"; preferable are independent tests; as a rule: avoid measuring the inputs, such as training hours conducted etc.</p> <p>When trade tests are used, it is essential that the underling occupational standards are relevant (i.e. in line with the economic demand and opportunities).</p> <p>Feedback from employers or propensity to pay course fees may come as handy proxy indicators.</p>	"Revenue recovers variable cost at annually incline up to 100%."
2	employed workforce equipped with new, updated, expanded competencies	<input type="checkbox"/> examinations passed <input type="checkbox"/> trade tests taken <input type="checkbox"/> satisfaction with course <input type="checkbox"/> positive record of formative assessment <input type="checkbox"/> lay-offs averted in negotiations with employers <input type="checkbox"/> participants bear share of course fees <input type="checkbox"/> participants invest free time			"50% of candidates pass trade test in 1 st attempt; 25 in 2 nd attempt."
3	proficiency of lowly skilled or semi-skilled personnel increased	<input type="checkbox"/> trade tests taken <input type="checkbox"/> promotion with seconding employers negotiated <input type="checkbox"/> employers paying the course fees			"Increasing share of participants sponsored by employers: 25%-50%"
4	unemployed equipped with market-going job-entry competencies	<input type="checkbox"/> community-based work projects negotiated to absorb trainees <input type="checkbox"/> trade test passed			"75% of all participants placed in community work programs at any time."
5	unemployed skilled persons placed in job-entry programmes	<input type="checkbox"/> placement accomplished <input type="checkbox"/> demand for more such schemes			"At least one new agency request trainees for placement: annually"
6	ability to pass trade tests increased	<input type="checkbox"/> tests taken successfully <input type="checkbox"/> admission to tests increased <input type="checkbox"/> length of waiting list shortened		This may work well, when trade testing is in the hands of an independent organization or network.	"Decline of fail rates from presently 50% to 15% within 5 years."
7	emerging entrepreneurs ready for starting own business	<input type="checkbox"/> business registration done <input type="checkbox"/> business plans ready <input type="checkbox"/> viable product/service idea or concept <input type="checkbox"/> positive feed-back from earlier starters <input type="checkbox"/> starters put up billboards in favour of project <input type="checkbox"/> starters return for more services <input type="checkbox"/> franchising takes off (project as franchiser)		use of proxy indicators advisable; these arte to reveal "returns on investment"	"Value of equipment assets of small businesses incline annually by 15%."
8	competitiveness of small entrepreneurs increased	<input type="checkbox"/> bottleneck in skills removed <input type="checkbox"/> procurement situation improved <input type="checkbox"/> marketing facilities improved <input type="checkbox"/> network of "each one help one" initiated		Informal sector associations may be used to establish this kind of rapport and data gathering. Personal visits/spot-checks are inevitable.	"Random checks on product quality at Institute of Standards show annual incline."

1.4 INTERNAL RESULTS OF TRAINING PROJECTS (micro-level)					
#	OBJECTIVE		SUGGESTED INDICATORS	comments	sample
1	training courses set-up and carried out; participants put through the courses	<input type="checkbox"/>	number of person*weeks of training size of groups fees taken ratio of applications : admissions ratio of admitted : turned out ratio of exams sat : passed number and type of courses avg. duration of courses official course approvals (accreditation)	As an overall indicator (not specifying individual courses) capacities to be installed versus actual utilization may be used. This is useful, if the courses are to respond to market forces quickly.	"All technical training venues used at 50%-60%-70% during initial years."
2	courses designed, course outlines prepared, curricula developed, syllabi prepared, test items available, lesson plans prepared, instructional material at hand, rotation plans available	<input type="checkbox"/>	number of designs quality of designs (structure, degree of detail, layout) relevance to labour-market type of underlying occupational profile (e.g. tri-partite involvement) number and type of test items storage/access of test items (database) use of lesson plans (binding or not) type and availability of media use and ownership of media/hand-outs ratio theory : practice learning materials properties (stimulating problem solving, enabling self-learning)	This is the whole range of "software and teachware". Quality assessment usually requires check-lists or detailed quality criteria and an independent evaluation. This could be installed in the form of regular or occasional peer assessment.	"Complete set of course material developed, tested and annually reviewed for all 5 technical trades."
3	building ready for use, equipment installed and operational, all training venues ready for delivery, maintenance of venues organised, external venues (on-the-job) acquired and linked, accreditation obtained for the center as a whole	<input type="checkbox"/>	ratio of class : lab : workshop : in-plant seats / space installed m ² per person available major equipment (with group sizes) availability of equipment for training use of maintenance plan/concept operational : unused days (annual avg.) ratio in-school : in-plant venues duration of "internships", industrial projects", industrial attachments relevance and content of internships in-plant training quality control system	The indicators may focus on "readiness for use" or actual "utilization"; first assessment after commissioning may use a check-list-based inspection. The checking of in-plant training facilities requires spot-checks; usually done by "official" training advisers or roving instructors.	"All venues ready for training according to annual inspection. Less than 10% items of check-list defective."
4	teachers & instructors hired an inducted, performance improved, teachforce ready to deliver quality training; center-specific teaching methods and style applied	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	number of pedagogical staff (in full-time equivalents) ratio students : teacher performance levels (for various categories of staff) ratio of student-centered learning allowing students own speed of learning CBT / mastering approach instead of rote learning / drilling	Teaching style may be assessed through "hospitality", students' feedback, or peer-group feedback; one may want to experiment with "open house events", where modern learning styles are demonstrated publicly...	"All teacher vacancies filled by end of year 3." "Number of non- or low- performers reduced annually."
5	training linked or dovetailed with production, incubators made available (to hatch new businesses), joint businesses (project in cooperation with trainees) in place	<input type="checkbox"/>	volume of production revenue from production training places vs. worker places at prod. type of linkage / intensity of integration organisation of production ratio of practical training : on-real-job number of "incubators" or size of incubator space number of joint start-up ventures average duration of joint ventures size of joint ventures	There are various models of how to combine Production AND production; training CUM production; teaching FACTORY); Conflicts of objectives are notorious: mind the 3-pronged purpose: RELEVANCE, LINKAGES and F'UNDING.	"60% of all trainees take part in production activities during 2 nd half of course." "Production recovers 15%of all training costs."

2.1 GOALS OF TRAINING QUALITY TOOLS PROJECTS (meso level)					
#	OBJECTIVE	SUGGESTED INDICATORS		comments	sample
1	educational quality of training institutions enhanced	<input type="checkbox"/> employers satisfaction <input type="checkbox"/> placement results of graduates <input type="checkbox"/> start-up careers of graduates		for verification and attribution of impacts: "before-after" or "with-without" comparison; a scientific design requires a control/comparison	"Institutions covered by the program compare favourably according to employers' opinion."
2	students learn more effectively	<input type="checkbox"/> students response, satisfaction index <input type="checkbox"/> exam results <input type="checkbox"/> attrition (drop out ratio) <input type="checkbox"/> duration, repetition, re-sitting of exams <input type="checkbox"/> time spent on studies versus available leisure time <input type="checkbox"/> time saved through distance learning		control group advantageous; experimental set-up may be considered during trial runs or test market phase	"Majority of students state and attribute improvements between 1 st and last semester."
3	practical relevance of training increased	<input type="checkbox"/> internships made a mandatory element of training <input type="checkbox"/> time ratio in-school vs. in-plant training <input type="checkbox"/> in-plant training concept and quality assurance in place <input type="checkbox"/> in-plant coaches = standard feature system-wide <input type="checkbox"/> company training plans standard practice system-wide			"50% of all colleges have integrated industrial practicals after 3 years."

2.2 OUTCOMES OF TRAINING QUALITY TOOLS PROJECTS (meso level)					
#	OBJECTIVE	SUGGESTED INDICATORS		comments	sample
1	teachers teach better	<input type="checkbox"/>	satisfaction with teaching skills upgrading	teacher performance and style may be checked through feed-back instruments: - students' feed back - peers' feedback or traditional class room observation ("hospitation")	"Visiting engineers from industry rate quality of instruction higher every year."
2	instructors perform better	<input type="checkbox"/>	classroom / workshop teaching style has become more student centered		
		<input type="checkbox"/>	more emphasis on problem solving skills preparation efforts increased		
		<input type="checkbox"/>	hand-outs and other material improved		
		<input type="checkbox"/>	positive students feedback on teachers promotions of high performing teachers		
		<input type="checkbox"/>	number of "poached" instructors/teachers		
3	students learn better (even if and when training infrastructure is an obstacle)	<input type="checkbox"/>	academic performance	problem of attributing learning results to just ONE input factor;	"Employers rate present student cohort better than previous."
		<input type="checkbox"/>	testing results		
		<input type="checkbox"/>	positive teachers feedback on students		
4	students step up self-learning efforts	<input type="checkbox"/>	ratio of time spent in class : at books	needs students interviews; consider group interviews with fixed/standardised part and an open discussion at end	"Students work-books show signs of intense use."
		<input type="checkbox"/>	satisfaction with learning material		
		<input type="checkbox"/>	wear and tear of self-learning materials		
5	students enjoy studies with new learning material more than before	<input type="checkbox"/>	satisfaction index	Experiment with: students write letters to interviewer or evaluator (such messages can reveal a lot).	"Steadily high number of feed-back- forms with positive comments."
		<input type="checkbox"/>	demand for more self-learning material		
		<input type="checkbox"/>	suggestions for improvement of materials		
		<input type="checkbox"/>	propensity to pay for learning material		
		<input type="checkbox"/>	volume of pirated copies		
6	institutions improve training quality	<input type="checkbox"/>	better hardware (availability, condition, maintenance, utilization, accessories)	This is a typical summative objective. Attribution will be a major problem in the verification process. If companies are ready to pay for training, then this is a good proxy indicator "VALUE FOR MONEY"	"Institutions covered by the program have significantly higher number of campus interviews."
		<input type="checkbox"/>	more relevant occupational standards		
		<input type="checkbox"/>	acceptance of occupational standards and certificates by companies		
		<input type="checkbox"/>	more relevant courseware		
		<input type="checkbox"/>	better performing teachforce		
		<input type="checkbox"/>	better training management		
		<input type="checkbox"/>	market accepts higher course fees		
7	out-of-school labour-force improve their competencies	<input type="checkbox"/>	purchase and use of training materials by non-students	consider feedback forms included in the books; create incentive for sending it back	At least 20% of learning material is purchased by non-students."
		<input type="checkbox"/>	number of practitioners applying for trade testing and certification		

2.3 OUTPUT / DELIVERABLES OF TRAINING QUALITY TOOLS PROJECTS (meso level)					
#	OBJECTIVE	SAMPLE INDICATOR		comments	sample
1	trained instructors / teachers provided (initial training)	<input type="checkbox"/>	courses run for fresh teachers	Most of the "hard" facts will flow from well organised school monitoring data systems. It may be a good idea to combine satisfaction surveys with promotional activities among the target teachers.	"Ratio of trained versus untrained teachers up by 10% annually."
2	teaching skills upgraded, updated	<input type="checkbox"/>	participants turned out		"5% of all teachers participate in further training per year."
3	specialization of teachers (in technology or special functions at the school)	<input type="checkbox"/>	person*weeks conducted		"Majority of schools request new topics every year."
4	teaching aids, instructional materials distributed	<input type="checkbox"/>	revenue from course fees	marketing tools should be in place and can double as monitoring instruments	"Teachers spent 1% of salary."
5	learning materials distributed	<input type="checkbox"/>	net profit realised		"20/30/40/50% of all students own some materials during inception phase."
6	self-learning materials distributed	<input type="checkbox"/>	materials reaching the end-user (%)		
7	occupational standards accepted	<input type="checkbox"/>	quality of materials meeting criteria list		"1 Industry per year adopts standards in collective bargaining"
8	tests and certification system operational	<input type="checkbox"/>	satisfaction of users / customers		"Testing centers run 2 shifts after 4 years."
		<input type="checkbox"/>	increasing demand from customers		
		<input type="checkbox"/>	customers' recommendations to peers		
		<input type="checkbox"/>	endorsement by responsible body		
		<input type="checkbox"/>	relevance in the labour market		
		<input type="checkbox"/>	standards used in collective bargaining		
		<input type="checkbox"/>	standards used in official pay scales		
		<input type="checkbox"/>	use of occupational standards in design of corporate job descriptions		
		<input type="checkbox"/>	number of candidates appearing for tests		
		<input type="checkbox"/>	revenues from testing fees		
		<input type="checkbox"/>	backlog of applications for testing		

2.4 INTERNAL RESULTS OF TRAINING QUALITY TOOLS PROJECTS (meso level)					
#	OBJECTIVE	SAMPLE INDICATOR		comments	sample
1	teacher and instructor training courses organised (initial training, upgrading and updating)	<input type="checkbox"/>	course designs available in: didactical skills <input type="checkbox"/> preparing of lesson plans <input type="checkbox"/> modern teaching and learning methods <input type="checkbox"/> maintenance of training venues preparation <input type="checkbox"/> and use of hand-outs organising industrial projects <input type="checkbox"/> organising industrial attachments <input type="checkbox"/> linking training and production promotion of self-employment <input type="checkbox"/>	<p>These indicators are basically quality-driven; focus is not on delivery!</p> <p>Overall quality will result from: proper format, good presentation, content relevance, didactical considerations, methodology, look and feel...</p> <p>For checking the quality of staff development course designs an internal quality management concept could be set up (e.g. following ISO 9004) or the materials may be sent out for a specialist's or peer group assessment in appropriate intervals.</p>	"State-of-the-art course modules cover the complete range of methodology & didactics."
2	training courses for non-pedagogical staff organised	<input type="checkbox"/>	course designs available in: maintenance of training venues lab and experiment preparations <input type="checkbox"/> backstopping for industrial internships <input type="checkbox"/> tracer studies <input type="checkbox"/> trainee placement services		"Courses available for at least 50% of non-pedagogical staff of training centers."
3	specialization of teachers and instructors	<input type="checkbox"/>	course designs available in: <input type="checkbox"/> skills of curriculum development <input type="checkbox"/> skills of teaching aids development <input type="checkbox"/> skills of standards development <input type="checkbox"/> skills of test item development <input type="checkbox"/> skills of database creation and use		"Courses offered in at least 4 different areas of development."
4	training management courses organised	<input type="checkbox"/>	course design available in: course marketing and design models for industrial attachment <input type="checkbox"/> business plan development <input type="checkbox"/> public relations <input type="checkbox"/> project monitoring <input type="checkbox"/> project planning		"Training Modules offered according to attached diagram"
5	learning and instructional materials developed	<input type="checkbox"/>	content, coverage, number, type, properties, size, price for: instructional media <input type="checkbox"/> teaching and learning packages <input type="checkbox"/> self-learning materials <input type="checkbox"/> multi-media volumes <input type="checkbox"/> web-site facility and services		"Curriculum of one trade per year fully covered by material."
6	occupational standards system developed	<input type="checkbox"/>	standards and test items provided <input type="checkbox"/> testing functions taken up by franchisees		"Per year 5 testing centers receive accreditation."
7					

3.1 GOALS OF SYSTEM DEVELOPMENT PROJECTS (macro level)					
#	OBJECTIVE	SUGGESTED INDICATORS		comments	sample
1	system further developed (output, intake, process, funding, decision making)	<input type="checkbox"/> system delivers better output quality <input type="checkbox"/> system turn-out better in line with manpower demand <input type="checkbox"/> intake of system better in line with requirements/aspirations of school leavers system and labour market better linked and matched <input type="checkbox"/> system access opened up to additional target groups (inclusion) <input type="checkbox"/> participatory decision making at system level (tri-partite or multi-partite bodies) <input type="checkbox"/> system funding re-organised, ascertained system decision making decentralized provider <input type="checkbox"/> accreditation system installed course approval system installed occupational standards introduced, endorsed <input type="checkbox"/> share of NGOs / commercial providers increased		The metaphor of system development follows a sequence of "better information" - "better decisions" - "better systems";	"Training centers switched towards market driven course supply." "Training system decentralised and commercialised by 2010."
2	sub-systems further developed	<input type="checkbox"/> training and production become standard features of technical training institutions occupational standards and testing opened up to all members of labour-force <input type="checkbox"/> school-based and plant-based training firmly integrated <input type="checkbox"/> curriculum development entrusted to multi-partite bodies <input type="checkbox"/> training system expanded towards servicing the informal sector <input type="checkbox"/> training system opened up to cater to disadvantaged groups of society <input type="checkbox"/> training and employment generation features linked in training institutions short course institutions launched to service demand of employed adults cooperative training (school/company) strengthened			"All training centers offer 25% of courses to applicants with lower academic qualifications." "Cooperative training becomes standard solution with 50% training time in-plant."
3	system aware and responsive to inclusion / equity aspects; e.g. gender (can be specified in terms of focus: gender, caste, religion, poverty, habitat, conflict affected groups)	<input type="checkbox"/> capacities used by male/female students <input type="checkbox"/> representation of "male" vs. "female" occupations or courses (cultural acceptance) <input type="checkbox"/> fair composition of teachforce <input type="checkbox"/> fair composition of management cadres gender sensitive presentation of learning and teaching materials <input type="checkbox"/> new courses in favour of female needs/requests		These are widely accepted cross-sectional aspects which supplement other system development strategies.	"Male domination of system-throughput reduced every year by 10%."
4	system responsive to ecological aspects	<input type="checkbox"/> introduction of ecology-related occupations <input type="checkbox"/> curricula show ecology-aware content <input type="checkbox"/> further training of teachers in ecology matters <input type="checkbox"/> ecology-aware practices at schools (maintenance, use of resources, handling of waste and hazardous materials)			"Ecology aspects considered in all training materials (for teachers and students) by year 2000."

3.2 OUTCOMES OF SYSTEM DEVELOPMENT PROJECTS (macro level)					
#	OBJECTIVE	SAMPLE INDICATOR		comments	sample
1	responsible bodies take rational decisions	<input type="checkbox"/> visions for new/overhauled system <input type="checkbox"/> mission improved <input type="checkbox"/> system strategies elaborated to change-over or to develop the system <input type="checkbox"/> decisions based on comprehensive information tapping available experience, feedback from trials, international comparison, etc. <input type="checkbox"/> reduced uncertainty and incompleteness of available information <input type="checkbox"/> decision making done in transparent, documented way <input type="checkbox"/> solutions blending international experience with national particulars		This may be a sensitive issue: National legislation influenced by a bilateral project. A low-profile is necessary.	"Manpower Development Plan emerges by end of 2 nd year." "Public hearings on intended Technical Education Legislation "
2	decision making bodies re-organised, power shared, widened, delegated, re-allocated	<input type="checkbox"/> tri-lateral power sharing among state, employers and employees <input type="checkbox"/> devolution of powers and responsibility to lower level bodies <input type="checkbox"/> opening up of "pockets" for innovative, free-wheeling sub-systems and providers <input type="checkbox"/> de-regulating of sub-systems (e.g. basing occupational standards on voluntariness) <input type="checkbox"/> accreditation of providers based upon outcomes rather than input/process control <input type="checkbox"/> segmenting of levy-grant systems (probably sectorial; regional=doubtful)		Multi-partite decision making tends to become a standard. This could involve co-determining system as a whole, or for sub-aspects such as endorsing occupational standards, taking responsibility for cooperative training and for managing a levy-grant system.	"A Tri- partite body is formed by law by year 2000." "Regional funds are formed for the training levy."
3					
4					
5					
6					
7					
8					

3.3 OUTPUT / DELIVERABLES OF SYSTEM DEVELOPMENT PROJECTS (macro level)					
#	OBJECTIVE	SUGGESTED INDICATORS		comments	sample
1	awareness created on best practices	<input type="checkbox"/>	best practices from several countries presented to key decision makers and discussed	<p>These objectives are mostly about information and communication.</p> <p>There could be efforts to diversify the means and styles of communication in order to reach / and make interested other than the usual target groups (key decision makers).</p> <p>The new media could be made use of in order to reach a broader audience and facilitate active dialogues (WebSite and News groups).</p> <p>Interactive means of communication (e.g. Internet) can be used for lively and instant monitoring.</p>	"Quarterly topic-based events with participation specialists from 75% of stakeholders conducted."
2	evidence about feasibility of models provided	<input type="checkbox"/>	national symposium conducted bi- annually with participants from a cross- section of relevant institutions		"Written Comments of key decision makers on viability of model obtained."
3	answers to policy or system management questions provided	<input type="checkbox"/>	trial run results presented & discussed conclusions drawn by decision makers other agencies willing to adopt the model		"10+ ad-hoc queries per year answered within less than 1 week."
4	recommendations issued for system developers	<input type="checkbox"/>	quarterly hearings conducted, where answers to policy questions are presented and discussed ad-hoc answers to urgent questions provided monthly		"Newsletter published quarterly."
5	blue-prints for system modifications prepared	<input type="checkbox"/>	briefings / bulletin with recommendations by system practitioners		"Master plan officially received by decision makers."
6	advertisement campaigns for new system features	<input type="checkbox"/>	master plan created and proposed proposals for implementation of innovative features presented/distributed break-down of overall plan into stakeholder-specific sub-plans		"Newspaper & magazine clippings show continuing attention of the issue."
7	showpieces opened up to public, professionals and policy makers	<input type="checkbox"/>	features for a system overhaul presented to and through the media positively received by the media response by the media audience (e.g. letters to editors)		"Guest book of open days shows more than 500 entries, 50 of which include diagnostic comments."
8	implementation tools and strategy options offered	<input type="checkbox"/>	model center run and kept at display to public, professionals and stakeholders; regular "open days" and special events conducted		"Implementation strategy available in Logframe format."
			plans, software, marketing material etc. prepared for implementers		

3.4 INTERNAL RESULTS OF SYSTEM DEVELOPMENT PROJECTS (macro level)						
#	OBJECTIVE	SUGGESTED INDICATORS		comments	sample	
1	documentation center, information pool, query system, help desk set up and services provided	<input type="checkbox"/>	center with x volumes kept available to users; capacity of y seats; open all day	These service provisions may be planned as logframe- results or alternatively planned on the activity level.	"Doc center with initial set of 500 documents is open 20 hrs/ week; avg. new arrivals per month = 10."	
		<input type="checkbox"/>	mail/fax/email answering service, capacity = xyz queries per day;			
		<input type="checkbox"/>	INTERNET café run and realizing turnover of ...			
2	meeting point, common address provided	<input type="checkbox"/>	meeting, conference and group working facilities provided to stakeholders			"20 annual conferences with 12-20 persons conducted with full Metaplan equipment"
3	conference facilities and services provided					
4	facilitation and moderation services provided	<input type="checkbox"/>	full time moderator and pool of external moderators kept available for stakeholder meetings, workshops, seminars;			"20 facilitated 3 day workshops arranged per year."
		<input type="checkbox"/>	moderation materials/ media available for 12 groups of up to 12 participants			
5	exhibition facilities and services provided	<input type="checkbox"/>	space and equipment kept/made available for 1 permanent exhibition showing ...			"4 major exhibitions/fairs per year conducted, reaching not less than 2000 visitors."
		<input type="checkbox"/>	new releases kept available			
6	pool of experts made available	<input type="checkbox"/>	experts from relevant subjects on call for various professional assignments		"12-20 person-months of services provided per year showing an increasing trend."	
		<input type="checkbox"/>	number of pre-arranged professional partnerships			
		<input type="checkbox"/>	contracts concluded with long-term backstopping institutions			
		<input type="checkbox"/>	stationing of long-term advisors (expats)			
7	publication and editing services provided	<input type="checkbox"/>	editing, graphic design, multi-media support for system-relevant literature and reports kept available		"5 publication projects finalised every year."	
8	trial runs conducted and evaluated	<input type="checkbox"/>	trial runs designed, trials assigned to participating pioneer providers		"3 trial runs per year initiated; full documentation available after 3 years."	
		<input type="checkbox"/>	trials supported, researched and documented			

4.1 GOALS OF INSTITUTION BUILDING					
#	OBJECTIVE	SUGGESTED INDICATORS		comments	sample
1	institution secured a long-term survival under changing economic conditions	<input type="checkbox"/> growth of capacities and investment <input type="checkbox"/> new services initiated <input type="checkbox"/> old services discarded <input type="checkbox"/> mission statement updated <input type="checkbox"/> participatory decision making structure <input type="checkbox"/> subsidiaries founded		On the highest level the objective is not simple survival but keeping up the dynamism and ability to respond to change.	"Investment in new technology at least every 3 years."
2	institution closed down and re-opened with new mission	<input type="checkbox"/> carefully organised closure <input type="checkbox"/> business plan for successor institution <input type="checkbox"/> well organised opening of new institution		This is regarded a sign of being able to respond to an extreme challenge.	"Orderly winding up process while securing the assets to a related project."
3	institution well placed in the training market	<input type="checkbox"/> institution rated among top 10 <input type="checkbox"/> revenues show steady incline <input type="checkbox"/> increasing number of applicants competitors imitate range of services innovations successful at rate of x % <input type="checkbox"/> new market segments conquered <input type="checkbox"/> new products/services launched <input type="checkbox"/> marketing department plays crucial role for product design and customer relations <input type="checkbox"/> quality assurance procedures introduced; certifications obtained		Not just survival among the pack but staying at the top could be the message.	"Institution accredited as an ISO9.... service provider by the year 2020."
4					
5					
6					
7					
8					

4.2 OUTCOMES OF INSTITUTION BUILDING					
#	OBJECTIVE	SUGGESTED INDICATORS		comments	sample
1	institution financially secure and stable	<input type="checkbox"/> re-investment carried out <input type="checkbox"/> modernization investment done <input type="checkbox"/> high reputation in the market <input type="checkbox"/> success in attracting sponsor money <input type="checkbox"/> financial reserves reaching ...% of turnover		Attracting sponsor money requires good financial management and public relations skills.	"Training equipment replaced according to re-investment plan."
2	institution well supported by staff and managers	<input type="checkbox"/> staff fluctuation at controlled level <input type="checkbox"/> corporate identity high and clear <input type="checkbox"/> staff aware of and behind mission			"100% of professional staff well aware of mission."
3	institution well embedded in social and industrial environment	<input type="checkbox"/> increasing good-will with neighbourhood <input type="checkbox"/> essentials of mission known to public <input type="checkbox"/> "extra-curricular" activities and events to liaise with socio-economic neighbourhood <input type="checkbox"/> industrial neighbours pay visits, conduct "campus interview" for new recruits <input type="checkbox"/> co-determination bodies (with employers, employees, clients, local communities) institutionalised & alive			"Annually increasing number of graduates is placed by means of campus interviews."
4	high institutional reputation	<input type="checkbox"/> products/services in high demand <input type="checkbox"/> customers pay cost-covering fees <input type="checkbox"/> institution receives special assignments (trials, events, high ranking visitors, development tasks) from parent agency <input type="checkbox"/> lead role towards peer institutions <input type="checkbox"/> institution carries out applied research and development (e.g. curricula) for peers			"Ratio of applications :admissions significantly higher than at peer institutions."
5					
6					
7					
8					

4.3 OUTPUT / DELIVERABLES OF INSTITUTION BUILDING					
#	OBJECTIVE	SAMPLE INDICATOR		comments	sample
1	structure of institution complete	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	organogram developed & positions filled service/policy manual in place and in use task forces and teams in charge of special temporary assignments organogram positions and links "alive"	organisation structure should show staffing, apex and attached bodies and advisors	"Positions filled in accordance with growing turnover."
2	performance of institution up to mark	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	services well received by target group quality groups and checks lead to improvement obsolete services regularly weeded out		"Ex-graduates increasingly endorse training to next-generation applicants "
3	economic survival ensured	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	costs recovered through revenue and/or through secure budget allocations capital accumulation for re-investment in place no depletion of assets (caused by over-use) technology upgrading secured		"Accumulation of capital in line with depreciation."
4	all management and delivery systems work well	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	inventory of managerial systems, instruments and tools done in regular intervals systems updated and streamlined monitoring system alive and leading to corrective managerial decisions management systems well documented and integrated (cf. ISO 9000 or special training quality certification systems of national or international certifiers)		"Majority of monitoring recommendations are taken up & actions are taken at top management level."
5	institution fit for survival	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	all management systems in place all management systems applied mission clear / on track staff acknowledged and motivated		"Independent organisational review attest workability of all management systems."
6					
7					
8					

4.4 INTERNAL RESULTS OF INSTITUTION BUILDING					
#	OBJECTIVE	SAMPLE INDICATOR		comments	sample
1	institution founded	<input type="checkbox"/> decision on legal form/entity registration done <input type="checkbox"/> memorandum of association done <input type="checkbox"/> bylaws done <input type="checkbox"/> founding members' signature on record <input type="checkbox"/> start-up capital injected <input type="checkbox"/> 1 st general meeting convened <input type="checkbox"/> association with "parent" institutions created			<p>"Constitution enforced by end of year."</p> <p>"Major stakeholders become members by end of year."</p>
2	organization developed	<input type="checkbox"/> organogram generated (positions & links defined) <input type="checkbox"/> positions described (job profiles) <input type="checkbox"/> reporting lines / matrix-links defined <input type="checkbox"/> positions filled over time <input type="checkbox"/> successors/under-studies identified <input type="checkbox"/> service/policy manual created & updated <input type="checkbox"/> decision making patterns & panels created <input type="checkbox"/> meeting & information policies developed <input type="checkbox"/> model for information processing and sharing among staff developed <input type="checkbox"/> office routines defined			<p>"Job descriptions available for all positions of organogram by end of year."</p> <p>"At 75% of all meetings visualisation techniques are used."</p>
3	staff development ensured	<i>implementation of the following systems (= jointly developed, documented, tested, introduced, applied & followed up):</i> <input type="checkbox"/> task analysis and job descriptions <input type="checkbox"/> recruitment and selection of staff <input type="checkbox"/> job induction and competence "gap" assessment <input type="checkbox"/> how to negotiate performance targets <input type="checkbox"/> empowerment, reporting and monitoring <input type="checkbox"/> feed-back and coaching culture <input type="checkbox"/> further training for staff (internal seminars) <input type="checkbox"/> further training for staff (coaching on-the-job) <input type="checkbox"/> further training for staff (external courses) <input type="checkbox"/> job rotation and external attachments <input type="checkbox"/> appraisals and rewards/incentives <input type="checkbox"/> career planning / promotions <input type="checkbox"/> successor planning / understudies <input type="checkbox"/> consultants (their changing roles from "foreman" to "coach" to "backstopper") <input type="checkbox"/> implementation of staff development plan			<p>"Annual updates or the staff development plan done by end of April."</p> <p>"20% of all staff undergo further training every year."</p> <p>"Appraisals carried out annually with all staff."</p> <p>"10% of all staff receive bonus payments."</p>
4	generic management instruments and policies put into place, used and maintained	<i>implementation of the following systems (i.e. jointly developed, documented, tested, introduced, applied & followed up):</i> <input type="checkbox"/> strategic planning, formulating of the mission <input type="checkbox"/> operations planning and re-planning <input type="checkbox"/> monitoring and evaluation <input type="checkbox"/> reporting and report-triggered decisions <input type="checkbox"/> retrieval system of major documents <input type="checkbox"/> donor handling procedures <input type="checkbox"/> staff leadership style/principles ingrained			<p>"Operations plan tracked quarterly and updated annually."</p> <p>"Operations plan broken down into staff guidance plans by middle managers."</p>
5	financial management system established and operated	<input type="checkbox"/> financial accounting system <input type="checkbox"/> cost accounting system <input type="checkbox"/> balance sheet done annually <input type="checkbox"/> income statement done quarterly <input type="checkbox"/> cash flow analysis/prognosis monthly <input type="checkbox"/> business planning every 5 years <input type="checkbox"/> re-investment/net investment plan <input type="checkbox"/> income generation / soliciting of sponsor money			<p>"Financial information available at the specified deadlines."</p> <p>"Targets of business plan achieved with ±20% accuracy."</p>

4.4 INTERNAL RESULTS OF INSTITUTION BUILDING (continued)					
#	OBJECTIVE	SAMPLE INDICATOR		comments	sample
6	marketing, product design, and quality management in place	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	market-linked system (e.g. following ISO9002) product design using appropriate technology or labour-based technology accreditation/approval for training services franchise contracts awarded for testing/certification	There is a considerable array of tools for service-marketing available.	Market segments known by end of year. Penetration strategy drawn up one year later."
7	training and production management system in place	<input type="checkbox"/> <input type="checkbox"/>	industrial organisation & design of workplaces / training places reconciliation tool "training : production" *)	Conflicts are likely. Consider a 4- field box of rights & duties.	"Conflicts are resolved amicably within four weeks."
8	management of educational resources and tools management in place	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	maintenance & upkeep systems training materials supply, storage and issuing curriculum development, lessons planning equipment, tools and other hardware instructional media, teachware, learning materials development and supply arrangement, layout, use of training venues linking, integrating of training venues		"Tripartite curriculum development & updating teams in place." "Maintenance history files established and tracked monthly."
9	gender action plans worked out and implemented	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	plan jointly developed and endorsed annual targets set for gender equity at all levels: staffing, participants and alliances creation of gender-conducive facilities gender-aware PR gender-awareness of monitoring/reporting		"Gender action plan enforced and tracked annually; checked at annual staff and students meeting."
10	networking and liaison functions in place	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	getting hold of best practices linking up with sister institutions and actively maintaining the links linking up with "neighbouring" sectors such as private sector and financial services development, urban development etc. engaging in donor co-ordination "hard-wired" networks division of labour with sister institutions engaging in synergy projects and joint revenue creation PR & media links established/maintained		"Network of active partners increased every year." "Net revenue from joint projects with peer institutions not less than 2000\$."
11	Donor's role	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Role clarification: advising or managing ? Advising the Management (rights & duties) Bricklaying in Institution Building		

5.1 GOALS OF A REPLICATION STRATEGY					
#	OBJECTIVE	SUGGESTED INDICATORS		comments	sample
1	Model replicated by project at another location (subsidiary)	<input type="checkbox"/>	branch office opened up following same strategy and approach	<p>The strategy suggested here assumes a multitude of potential replicators.</p> <p>Apart from "the client", i.e. the agency which mandated the model and "owns" the outcome of the trials, there may be other potential replicators.</p> <p>By gearing the project services also to those, the replication scale can be expanded.</p>	"Subsidiary training center opened up in Mapuataland during 4 th year."
2	Model adopted and implemented by other agencies	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	model cloned in several cases over time major features of model used at other locations franchise contracts negotiated		"NGOs set up training centers adopting the model approach at a rate of one per year."
3	Model adopted and implemented system-wide by responsible authority (regulator)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	national training board embarks on full scale implementation strategy existing institutions switched to model approach new model institutions set up		"Model approach becomes standard solution in all existing training centers at a rate of 10% / year."
4	Features of the model become standard for peer institutions	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	all features of the model introduced at other comparable institutions/programs all major features adopted at ... some major features adopted (bandwagon) model in principle adopted, but adapted to prevailing local or regional conditions		"50% of existing training centers launch additional programmes following the basic principles of the model approach during the next project phase."
5	Model incorporated in donor's portfolio of assisted projects	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	model appears as a standard or preferred type of project in donor's portfolio donor includes model project in sector programmes as preferable solution donor advertises model in donor community		"Several agencies of the donor community request blueprints of model approach."
6	Model ported to another country (e.g. South-South)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	model transferred from trial country to an interested neighbouring country model accepted at multi-national conference as a preferable solution trial project assists follower project(s) across national boundaries trial project staff carry out consultancy services at international level		"2 start-up consultancy missions per year carried out for other countries in the region at full cost recovery."
7					
8					

5.2 OUTCOMES OF A REPLICATION STRATEGY					
#	OBJECTIVE	SAMPLE INDICATOR		comments	sample
1	responsible National Training Authority formally approves of the model	<input type="checkbox"/> reform/innovation decision taken <input type="checkbox"/> implementation schedule issued <input type="checkbox"/> legislation/ordinance/passed		A classic replication strategy, where Government is seen as the main addressee of the process. Ideally model-runs are mandated by "the client". Tool = 44	"Model approach propagated in long-term manpower plan of the Government."
2	Funds for model replication made available	<input type="checkbox"/> budget estimates for model submitted <input type="checkbox"/> budget for first series of replications approved			"Implementation budget covering the next 4 years allocated."
3	stakeholders recommend model for replication	<input type="checkbox"/> conference held, decisions made in favour <input type="checkbox"/> press releases of major stakeholders favour model <input type="checkbox"/> annual reports/bulletins/newsletters of stakeholder feature and favour model			"Model positively commented or recommended in all newsletters/journals of the stakeholder organisations."
4	Model ranks high on agenda of decision makers	<input type="checkbox"/> model appears as pivotal element in system-reform plans <input type="checkbox"/> model recommended to legislators model requested and advocated in lobby <input type="checkbox"/> public opinion pays attention to model <input type="checkbox"/> media provide room for model debate, letters to editors; blogs, etc.			"Bill submitted to parliament by end of project."
5					
6					
7					
8					

5.3 OUTPUT / DELIVERABLES OF A REPLICATION STRATEGY					
#	OBJECTIVE	SUGGESTED INDICATORS		comments	sample
1	model presented as replication-ready	<input type="checkbox"/> documented tests, proof of success recommendations for replication <input type="checkbox"/> moral suasion towards replication action <input type="checkbox"/> plans for replication submitted <input type="checkbox"/> model site visited by prospects and clients <input type="checkbox"/> Hot-Line frequently used by interested parties and prospective clients			"Full documentation available in several versions for different audiences: - scientific/ - political - journalistic."
2	model advertised for replication	<input type="checkbox"/> media campaigns launched <input type="checkbox"/> public forum provided professional forum provided <input type="checkbox"/> manuals and other supportive materials for replication created and sold <input type="checkbox"/> WebSite visited by interested parties		From objective 1 to 4 there is an increasing degree of persuasion involved. "Hard-Selling" of a model may lead to an artificially high acceptance rate & misjudgment of the real likeliness of replication.	"120 copies of replication manual sold at cost during 1 st year." "50 visits to WebSite per week with inclining trend over 6 months."
3	support for replication made available	<input type="checkbox"/> project staff invited repeatedly for presentations / debates / clarifications <input type="checkbox"/> supporting information and assistance requested by parent agencies <input type="checkbox"/> master implementation plan elaborated <input type="checkbox"/> consultancy/training services for clients interested in replication/adoption/ adaptations of model marketed or provided			"20% of time of all involved professional staff dedicated to external information."
4	potential replicators identified	<input type="checkbox"/> requests for information received <input type="checkbox"/> requests for start-up support received <input type="checkbox"/> consultancy services sold to interested replicators			"Project approached by at least 10 seriously interested parties per year."
5					
6					
7					
8					

5.4 INTERNAL RESULTS OF A REPLICATION STRATEGY					
#	OBJECTIVE	SUGGESTED INDICATORS		comments	sample
1	trial runs carried out and evaluated	<input type="checkbox"/>	test designs elaborated evaluation approach designed evaluation result provided	Models are understood as trials and errors which precede a far-reaching (possibly expensive) decision.	"Findings, conclusions & recommendations from trial run available."
		<input type="checkbox"/>	trial history files available		
2	trial runs researched and documented	<input type="checkbox"/>	interim trial report published	It should be accepted that the result of the model run could be either positive or negative. A negative conclusion ("unsuitable" for replication.") is perfectly alright as a project outcome.	"Continuous documentation available with time lag no longer than 3 months."
		<input type="checkbox"/>	final trial report published additional publications (special issues)		
3	model improved and tested	<input type="checkbox"/>	<i>ongoing trials:</i> diagnosis & conclusions presented	The process of erring and re-trying may be iterative. However, success of the model must not be "forced".	"Documentation of reasons for and issues of modification of design."
		<input type="checkbox"/>	modified/improved/adapted designs		
4	evidence and recommendations prepared	<input type="checkbox"/>	position papers edited/published		"Recommendations submitted in decision-friendly format by end of trial-runs."
		<input type="checkbox"/>	project closure report published		
		<input type="checkbox"/>	lessons learnt disseminated		
5	marketing material and events created	<input type="checkbox"/>	PR material developed	A tool or a checklist for designing media campaigns would be very helpful.	"Flyers, brochures, videos, CDs, T-Shirts, and popularized versions of the report available for mass distribution by of project."
		<input type="checkbox"/>	PR concept approved by board		
		<input type="checkbox"/>	model site developed into a live visitors' center		
		<input type="checkbox"/>	WebSite installed and maintained		
6	start-up facility for "replicators" provided	<input type="checkbox"/>	staff proficient as consultants		"Training modules designed and ready for early replicators or trailblazers."
		<input type="checkbox"/>	blue prints for replication available		
		<input type="checkbox"/>	FAQ papers available		
		<input type="checkbox"/>	training modules for prospective "clients" designed		
7					
8					