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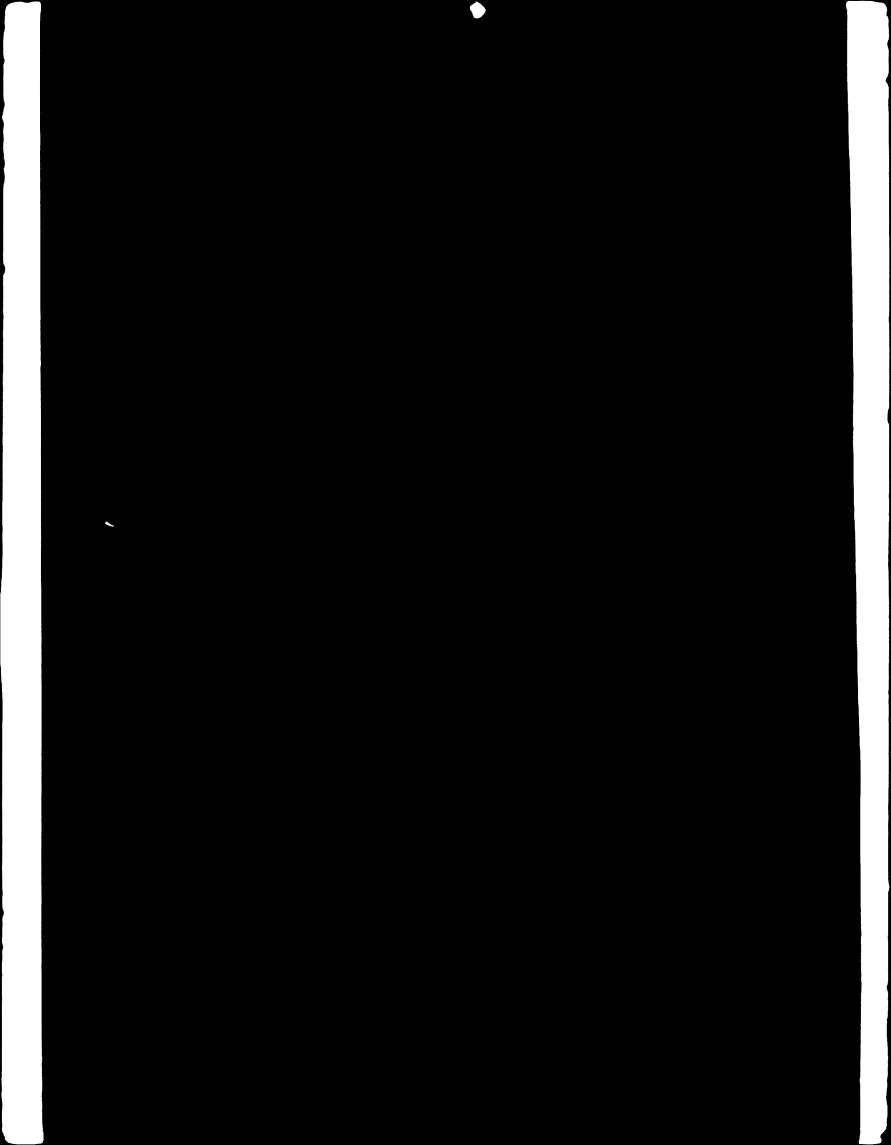
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Uniter Nations Industrial Development Countration

Expert Group Meeting on Technical Assistance in Pre-investment Studies

Vienna, !! - !/ December 1976

A SPECT OF THE PRACTICALITY OF IMPRIVIPMENT SPECIAL PROPERTY OF THE CONTRACT O

Christoph Hagner's

^{*} Chairman, C.T.W. Project-Hanagement Oabil., Mostadon, P.B.C. and C.T.W. International Limited, Bublin, Republic of Ireland

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en Industrial Environment Commiss

Superi Group Shoting on Postational Asstations in Pro-investment Studios Planna, 16-17 Secondor 1976

A STATE OF THE PRODUCTION OF SHOPPINGSHARM A SHIPE V

Artistaph theore

A former personal in the Manufactor of 1848

1. STYLES OF THE SECRET OF PRODUCELLY? GREEN

- 1. Industrial propert studies which do not provide at least the requisite data and information on merbote, products, finance and implementation administs against to considered "handable". And no project can be considered handable unless it to extinctly appropriatly a potential investor. The course for the apparent assumptation of unimplemented fractibility studies in developing countries are the last of an effective appropriat evaluation and servening, and the last of local expectity to finilitate timely decision—making an project studies. On the other hand, the tendency to deplicate floatibility studies, and thus more recourses, until mean to be the receil of course floatibility studies, and thus more recourses, until mean to be the receil of course floations everlapping or competing institutions embusting project studies; discounts, technical opinions of consultants; and conflicting critoria of potential investors, who typically include decomments, private investors and institutional leaders.
- 2. Investment follow-up is generally hampered by the large number of institutions.
 That have to be expected in the investment present, even then the individual organi-

^{*} Chairman, E.T.W. Project-Changement Calif. Disorbates, Palaral Expeditor of Corresp, and F.W.W. Extenditional Lightest, Dublin, Expeditor of Iroland.

If The views and opinions supremed in this paper are those of the author and do not necessarily reflect the views of the Socretaries of WID.

14. 76-478)

putofit from officient. Small proposes and usual consequences to perticular actual butofit from officient to expenditure upon testament and simplify procedures. The establishment of testamentary control establishment of testamentary control establishment is established information to establish them to establish investors must be given reliable information to establish than to establish and rick sufficiently. Investment presention medicarly than all to establish procedures admits flooties? The established to give more absention than higherto to "have story about flooties?" The established the established than th

- 3. Possibility would assume sould assume the series of time, many and offert secreting to the seape and size of the project and the entheria of potential investors in it. One aspect of fractivity studies which could become increasingly important in the fature is regional co-operation, which would mable developing constrict to evaluate process market constraints as industrialisation. There there is regional so-constitute fraction would need to reconcile mated objections, strategies and practices. Regional consultation organizations could therefore play as important role in industrial su-operation are anguments, although their restrictions would accordantly by limited to the technical separate of project formulation and well-united and would not optacl to the technical separate of project
- 4. The lask of information on fractatity studies already carried out to an electrole to investment follow-up action. There is a definite mend to collect, update, analyse at discompands such studies. (Will is uniquely place to provie this corives to potential investory by maintaining a live control of industrial projects.

IT. MORNING M. TOWS

- 5. In the light of present and future toods the Pollowing recommedians may most further attention:
 - (1) The role of pro-investment mudden about a term of the investment decision presses:
 - (11) Implementation plane should be included in feesibility studies;
 - (151) Potential investors should be identified to good time and investod in all stages of the project development;
 - (iv) The development of local skills is project studios and management should be appealed-up, and now arthods of co-operation with execultante should be festered:

- (r) The expectly of generated agreetes and baths about to obsent the observable of freethilds station;
- (11) There should be greater sent and time expresses then pro-investment studies are makes
- (vii) Estimal and regimal agreetes stould play a core important role to gre-terestant states, and their next about to better se-criticates.

111. TO DAY OF THIS

- firstice, formiction, emigration and implementation. Decome reconstruct or limited compared with permitted mode, the Separabelian's efforts appear to be appeared thinly and their effort in not contly discountation. But approaches based as such exiteria as extensivity, multiplier effort and emittacity in the assistance effort about the explored. Will's assistance in appears development and institution building about to intensified; its ability to respond quickly to recover problem and elicitates buildings about to intensified; its ability to respond quickly to recover problem and elicitates buildings about to intensified; its ability to respond quickly to recover problem and elicitates buildinesses during the various stages of propert development and implementation about to improve. Of no less importance are the contributions WID can continue to make in developing simplified arthodological and manufact, in making sidely been successful endocroure, and a clarifying conceptual and terminological issues.
- 7. The objections and out above could be achieved by increasing WID's expectly to provide congretaments convices to deverage and potential increases at vertices stages of pre-increatement studies and increases follow-up. These convices, if consolidated and institutionalized within WID, rould be instrumental in starting action as functionally studies already corried out and, in the langer term, in minimizing a constant flow of brabable industrial projects objectives which are dividually of interest to all the parties to an investment; decomments, demostly and function, and institutional landers.



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Boto. Littren 19/8.175/3/million 2 Monatos 1976 Million

Experience in the Manager Livides part of Emperods Industrial

Simila de Seportes sebre Asistencia Munica en Satudios de Fraisvarei A

Piene. 14-17 diesembre 1976

THE SAME IN THE PARK BETTER IN PROPERTY.

por Christoph Demor^a

Branco procede per la francisco de la monte

I. Shall II LA CARTICINA INLATIONAL CON MO

1. Les artidies poère proportes industriales que no familitan le información y les dates nocomprios sobre norregies, productes, financiación y calendaries de ojecución no pueden canciderques came "acoptables en based". Munde, ningún proporte puede tener posibilidades de financiación ei no es artirapante postrecinade por un inversimiente solvante. Le faite de un sistema oficas de evaluación y solocción de proportes, y la faite de especidad level para la adopción operana de decisiones respecte de les cotudos de proportes em las especidas operana de decisiones respecte de les cotudos de proportes em las países en desarrollo. Por etra parte, la tendencia a deplicar estudios de viabilidad, y despilfarrar ael resurces, paracorfa ser el resultade de divorces fastocces la esistencia de instituciones que realisan estudios de proportes complitande entre el e supes artividades se achregamen las epiniones técnicas divorgantes de les emacitores) y les eritories canflictives de les pacibles inversionistate, entre les que suclen figurar gebiornes, inversionistate privades e instituciones de présiones.

o Procidente de C.T.U. Project-Amegment Cali, Mocheden (Rephice Pederal de Alemaia), y C.T.U. International Limited, Robin (Rephice de Irlanda).

l las spiniense que el enter segrese en este demanute ne reflejen nessecuriamente las de la Secretaria de la CINE.

- 2. In inversions que deban aquir e les estudies es un per le general chateralisates per el gras adhere de instituciones que les de ser complèque en el presses de inversión, con independencia de que estus esquisquienes aug e ne oficientes. Les cofueres per nedeminer el agree institucional y etaplificar les presidentes beneficiarles estre tode a les paquides proportes y a les populées especaries. El establecimiente de contras de tempologie pudiere famenter la participación de inversionistas nacionales. A les inversionistas estres para que pardes evaluer ademadamente la rentabilidad y les riceges. Les instituciones de famente de las inversiones quied decisions prestar en abeliante nayor géomida a la "identificación de inversionistas", contribuyendo acé a la "emportalidación de les proyectors.
- 3. Les cotudies de viabilidad pueden ser não e nomes detallados, segán convença en cada case. Serfa conveniente nedificar les incases de tiampo, dinore y cofuerace segán qual fuera el alegace y la negativa del proposte y les critories de los pecibles inversionistas. Un aspecto de les estudies de vighilidad que pudiera ser cada ves não importante as el de la comporación regional, que permitirfa a les países en deserrolle superar las restricciones de mercado que actualmente pesas sobre su industrialisación. Sende hubiera cooperación regional, les estudies de viabilidad tendefan que conciliar diversos objetivos, estratogias y prácticas. Per consigniente, las organisaciones regionales de consulta pedefan desempeñar una función importante en la proparación de acuerdos de cooperación industrial, sunque su contribución deberfa limitarse necesarigamente a los aspectos idenicos de la formulación y evaluación de proyectos, sin entrer en la función propiamente política de la adopción de decisiones.
- 4. In falta de información sobre les estudies de viabilidad ya efectuales emetituye un obstátule para las actividades de inversión emplementarias. Eniste una clara necesidad de recegor, actualizar, analizar y difundir diches estudies. La GAUSE es encuentra en posición escopeianal para prestar este servicio a posibles inversionistas mediante el mantenimiente de una estora actualizada de propostas industriales.

II. MOOFWHALCIGHT

- 5. A la lus de las reconidades estuales y futuras emvandria quied prestar más etención a las siguientes recomendaciones:
 - i) De definires de nueve la función de les estudies de preinversión para familitar las desistenes que entrela todo present de inversión:

- ti) has estudion do vidilidad delan testate phases para la operation del propertos
- tit) has provided invertentates defen our identification to ado prento positio y participar on taken has fused del decerrollo del proportos
- (r) Die gestergram et tragrentie de gétéraire langues en estation y gestife de proportes, y dels abanteres et tragrentie de morres affaire de responsité est lan establieros.
- v) Dits references la especial de les tenses y de les especiales guinnementales en esten à la especialité de les estables de viabilitéals
- vi) di efectuar estudies de proteversión convendeda tener ade processes Les factores tiangs y diserres
- vii) Les erganismes narienales y regionales debus descriptur une función ade importante en les estudies de projectoristic, y en labor debu estar enjor escribada.

III. PRINCE D IA COME

i. A solicited de les getternes, la CESE procéa actobacta para la identificación, formulación, evaluación y operatón de proportes. Detde a la compasa de recursos en emparatón com las accontágles existentes, les enfueraces de la Organización person demantale disperson y se se electron electron electron en repersonión. Convendréa captorer morses enfuence basedes en eritorion com la solectividad, el efecto miliplicador y la continuidad de la actobaccia proctada. Dete intensificações la actobaccia de la CESE en erien al decarrollo del capital humas y del narco institucional; debe perfeccionarse se capacidad para recolver problema con repidos y eliminar parten de cotragalaciante en las divorase fasos del decarrollo y la ejemetón de proportes. De nasco imperiantes em las contribuciones que la CESE pado continuar apertante para la elaboración de miedalações y namales simplificados, la divolgación de realizaciones actividantes(s), y la actoración de montimos emecupicados y terminológicas.

7. Il complication de les eléptions extendents accentains requerirés un accessé de le reported de le COST part facilités acritaines emplotes à les précises y à les problèses terrestantes un les électres fians de les estables de précise de les terrestants que les etgans. Une une constituée à territorie maliante un le COST, estes correctes pairès descapair une famille destinaire un le terrestante de métales respecte de estables de violatified pa effortante y, à large plane, un el contentante de une correcte tenteremptés de properties industriales eux posibilitéaire de l'importante, tode le mai reduction un provente de todes les partes intercaules un les inversaces précises, inversions de todes les partes intercaules un les inversaces de précises, précises, inversions de précises.



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United Nations Industrial Development Organization

Expert Group Resting on Technical Assistance in Pre-importment Studies

Bosse, 14 - 17 Bossber 1976

A STANK OF THE PERSISTENCY OF INSTITUTIONALIZED A WITH PRINCIPAL SERVICE IN PRO-INVESTMENT STANKED

Pro-levestment Atrinory Service

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Oristoph Depier

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[•] Coirma, C.T.S. Project-Congruent Cubil., Mostadon, P.S.C. and C.T.C. Interpottern Limited, Dublin, Republic of Iroland.

1.

In the imag term, it may be necessary to devotes a new and positional approach to pre-immediately and devotes and terminant deviation-embags in devotes an embedded and the approach this approach for the terminal of approach industrial antion. This Will approach will be applied to an property that are not yet being immediately. For the angles of project black, pre-foundability and fourthility studies already establing, and devotes an encountry. While could offer this aid by antiting an advisory entries for pre-immediately studies. This approach to deviate-exists. It exists my the certics of the new WID approach to deviate-exists. It exists belong in devotes at the sew WID approach to deviate-exists. It exists belong in devotes at the sew WID approach to deviate-exists. It

S. Marie

They proved to specially of investment deviation-making prescribes to describe the quality of investment deviation-making prescribes to developing countries, by discovering and remoting the bottlements of these providers. Wild' current of facture will be expected to toping of projects (by number, values, packing and speed) brought take the float investment deviation place. Some of the speed in functions could be

- to survey, collect and respieve establing project them, profemablishly studies etc.;
- to corose them for extremal programments, development begin,
 private terretors, or on this street on this traiter;
- . To contagte them intermedly in an afficient, then-emiss emission to color to color the next presidency property.
- to quotify the resease sky them producing project proposals
 have not been followed up (becomessize resease, formal
 temperature, look of northeting/engagesting/flagmoics/hattered
 or temperature plane, last of professionation, last of
 building str.)

- to mive their needland(s) by semilating, suggesting or specially the sight a constant
- to promote unraky projects in order to estate the comment of promoters, because, investors over;
- to facilitate evaluation by banks and processing bedoes by anti-cipating their etandeness and regal remarks for (pre-)banest-
- . It halp done uplay and improving the methods of improving the methods of improvings
- to help in analyzing, neglecting and publicating through authorist development nerverks.

These particular functions are to be exempled with as \$1000 deplication are competition as providing with professionation equalities the standards of regional consultants and bushers and expectate presentations and with a high degree of time and out of residence and controls.

III. THE PROPERTY OF THE

The working archete of SPIE will have to be interdisciplinary; plant a marketing, engagement interesting, political planting and implementation members interest will be dealt with. On the other bank, SPIE will have to steer close from over mounting just survive banks or entitle ant/or research organization - it will have to be constructed as a task force - provide entring being the mass task. Therefore, the banks will of most engagemention will be the interestinglished term. Such the SPIES task will entered of three to five members, each number with question made and approach, some being a super-specialist. The particular approach will include

- marketing research and planning
 (for the numbering expects of familiarity studies))
- englacering and testering transfer
 (for propering the teste decisions on authors of production offi.))

- Financial planting including for moins without (for producing banksule for inclining studies);
- notional riceming out producing sempetability with semerassial place);
- implementation right, the project manyment for designing the sound of militar to be called a course of postures.

Brown temper should be a operator of an one of those five fields. The temperature responsibility will be:

 to to-ordinate all team members, to tawart and control their time imput, and to manned work an summer at as become clear that the project under poview will not be read, ed.

Do will have to contact the different agencies, bushs and government departments. Do should therefore, as a rule, he a financial specialist with disjonatic talents.

provide and not expend into a soif-sufficient erganization, it will been to comprehe as much as possible and to comprehe as little as possible with existing erganizations. Basically, UPIAF postices shall complement the services of others, in a very active may, however.

The wis the consulting firms (engageers as well as accounting, competed or asserting consultants), WIAS shall not build up competitive expection but rather use their expections by subcontracting their accises. In enter to do this in a most productive way, UPIAS? tem leaders will have to know - or be trained in the methods of selecting suitable consulting firms and the best ways of co-operating with them. They will also have to know shout their typics; for structures - and apply them within their our WIAS framework, also.

Will about co-sperse with all development appearer, banks, atc.

Will my body them to identify, formulate, retrieve, speed up and

complete their projects. Will may request their active co-specifies

from of charge on the basis of substity. Wills will not compete for

projects "on the market", but usli accept jobs whenever the "client" thinks WINS can do a better job than their agencies.

IV. MED FOR BURGETIME IN IM SERVICES

Just so WEED in its environ to each and maintain acceptance, WEED will have to publishes and market its our potential. This does not imply wide-spread and county presentance efforts. It rather means that all agents in the development field should be informed about WEED services offered. Up to the time as when encountful model cause have been established - hopefully in 1977 - publicity has to be very medicat. After some success has been achieved, however, much presention can become more approaches.

Promotion in accessary if and when UNIDO expects considerable refinancing of its UPIAS efforts by four from clients and other institutions.

V. STREET, AND RESTRICTED, COLUMNIZATION OF UPIAS

Worlintde, regional and national development ergenizations are existing eve subcre, as technically speaking, there is complete network of pre-investment assistance. However, worldwide institutions (like the World Bank) are concentrating on big projects, regional ergenizations de represent toe many commission of toe different stages of development.

Thus, organizations for the whole world and for the big regions are not flexible enough for the tasks sheed of UPIAS. The sational level being too limited in scope (except for large countries like India), the subregional level recommends itself as the specific level of UPIAS estivities. Subregious are sometimes difficult to define. However, there are well defined subregions like the AMAM sountries, the Arab League etc. Some of these, like the Arab League, already have established institutions siming at speeding up development (and integration) in their specific areas. Others - like the AMAM group - have not yet founded similar organizations.

In the teginning of the UPIAS programme, UEISO should strive for establishing successful model cases in selected subregions rather than

for complete coverage of all subregions. Once a subregion k been defined and colocted for the octablishment of an UPIAS service, the selection of the location becomes important. Some of the nero important criteria area

- infractructure including communications;
- processe of other subregional institutions;
- presence of consulting firms.

The central effice should be Vienna. UNIBU's Peacibility Studies
Section should be the "central team" to organise the establishment; and,
later on, the co-ordination of subregional UPIAS centres. Horsever, UNIBO
Vienna, could be entrusted with the responsibility of organising the exchange of information and experience and developing the new approach to
invoctage decicion-unking in developing countries.

VI. PINANCING AND REPINANCING OF UPIAS

UNIDO would need to have to finance for setting up an UPIAS service in the development subregions, at least up to the take-off point where success cases are available and do attract paying clients. The costs will consist of manpower costs for an average of four experts per subregion plus effice costs and travel expenses etc. These costs can be distributed ever the years, if only two to three service centres are established within one budget year. Office and internal service costs can be levered by using existing UNDP facilities.

Since UPIAS will be a task force, it will depend on supplementary corvices performed by public agencies and private consulting figure. As to public agencies, their services will be to some degree available free of charges

- if there is mutuality of interest;
- if these institutions do not account commercially for their our mantime (as some of them are just starting to do). Some will be obliged to charge normal fees.

As to private consulting firms, they will charge competitive fees which, in turn, can be either included in UPIAS bills or billed directly to UPIAS elients.

Generally, the four for professional, bankship feasibility station perferred to UPIAS (whether that he pre-feasibility or full-fleight) should be commercially calculated on non-hours sport and accordingly to charged to the client. If there is multiplicity of promoters, the paying client has to be defined very early in the game by the team leader of UPIAS, and a budget has to be agreed with him, limiting the app-hours to be spent by UPIAS.

After UPIAS efforts have led to positive decisions on a project, the costs of foregoing feasibility studies can easily be included in the total investment budget. In this case, there is a very good chance of recovering all UPIAS costs relevant to that project. WIAS can increase the percentage of recovered total costs by concentrating on project proposals with a high probability of positive bank decisions.

After having established a suscess image, UPIAS can charge sufficient overheads and/or "profit margins" to compensate for its initial inventments (of notting up the nervice), for the costs of sectinglemented projects and for climate unwilling or unable to pay cost-covering from.

Amperience shows, however, that services institutionalized by public institutions like UNIDO, can hardly ever become completely self-financing. If it is one of the goals of UPIAS to get as much refinencing as possible, some incentives for the menagers of that service should be offered.

VII. BOUR TIMETABLE FOR INPLEMENTING UPIA

Pheco 1

Mesonston of analysis and proposal in Vienna (14 - 17 December 1976); Sesserlation of recommendations and establishment of a steering committee.

Phase 2

(January and February of 1977) Selection of subregions to be serviced, formulation of job descriptions for UPIAS Test beaders and numbers, calculation of bulgets for 1377 and 1978 with variance for different degrees of refinancia;. Rough draft on new WITSD investment destates—making approach.

7490

(Receb and April 1977)

Sworth for conditation for the jobs defined in Phase 2, interviews with them. Braiting of publications describing the UPIAS range of services.

Page 4

(Nay and June 1977)

Actual publication and distribution of 19748 public relations actorial. Conference to be held in Vicana with the first experts colorted for 19748 in order to develop and define the basic approach and aetherology.

تعطا

(July and August 1977)

Brighliahnrat of the first one or two WPIAS contro(e) in one (or two) subractions.

Phone 6

(September and October 1977)

Deginning contact work by subregional WPIAS caparto. Seglanting of sciention of project proposity.

Page 1

(November / Boombor 1977)

First contracts from clients; first project proposals completely detailed planning for 1976.

Dage_

(Jamesy - Pobernery 1976)

Percence projects brought to decision. Publication of first results in order to attract paying clients. Betablishment of second, third

and fourth 17505 subregional control

For short term artivities, planning should follow the S-casth period. For the establishment of subregional centres, planning should be tallfolded by Flatte according to the 5 phases certified above.

O. Triroduction

Petween 29 September and 14 November 1976 the following courtness were virited by the author:

Egypt, Sudan, Kuwait, Malaysia (*), Thailand, Philippines,
Australia (*) and India (*) for approximately one full week each.
(The countries marked with an (*) at author's own expense).

In all cases, the attitudes, practices, rules and regulations,
methods and procedures connected with pre-investment studies
of any kind were studied by interviewing the experts of regional,
subregional and - time permitting - national institutions and
organizations.

The ten questions contained in the document dated 30 July 1976 became the guidelines of the interviews conducted. However, as the discussions went on, new problems were registered. In the end, the necessity of re-thinking the whole problem became evident. The intentions of the field mission and of the expert group meeting are probably best met by an outspoken formulation of these necessities. If some of the theses seem provocative, it may be reminded that the purpose of this report is not to present anything final, but to deliver input for the experts convening in Vienna and to facilitate their decisions.

The analytical part follows the ten questions of the triefing, and some of these questions have been subdivided. The recommendations part is structured according to a somewhat simplified carboning scheme: Trends in the market are formulated, UNIDO's role is being note tigated and a plan for action - namely the establishment of an UTIL I descitablity service - is being commented. Those who might object to the kind of functional analysis of UNIDO as attempted in this report have to be reminded that a mere continuation of the status quo of UNIO services is not being recommended by anyone inside or outside of UNIO.

Insecurity generally prevailing. Thus, pre-investment studies and feasibility studies are used simultaneously, but project ideas are meant to be project definitions without and before the application of research instruments. Project evaluation is used according to the well-known UNIDO guidelines. Those readers with greater terminological interest are referred to the attempts of Kreditanstalt fuer Wiederaufbau (Staff Papers No. 5/1970).

Acknowledgements have to be made to all personalities interviewed - many more than could be mentioned under Chapter 3) - and their readiness to discuss our questions, even if a certain saturation with feasibility study problems on the one hand and a rather low level of expectations as to UNIDO's potential contribution can hardly be overlooked. The 110 minutes average duration of the discussions was almost always considered as too long for a courtesy call and too short for a professional discussion. This very kind of schedule was considered "typically UNIDO".

In the future, UNIDO may regain the respect of some professionals by entering into a more profound discussion with them.

1. Analysis: Ten Questions Answered

1.1 IS THEPE A SERIOUS SHOPTAGE OF BANKABLE PROJECTS AND, IF YES, WHY?

First, it has to be defined what is to be understood by the now fashionable term "bankability". Bankable are those projects (or feasibility studies) that banks consider as sufficient for the allocation of loan capital. Such projects are passing the credit examination or project evaluation departments of banks with little or no difficulty. They do not cause the bank's staff to repeat any investigation which investors and promoters or their consultants are supposed to have done already. Lately, the term "bankable" has also been

.

applied to those consultants who have established a reputation of producing such studies. To muste the extreme statements, "One out of 200 proposals is tankable" and "if a project is bankable, a symbolic equity of 3 " is sufficient and remaining capital will be offered or a silver plate".

Secondly, the minimum requirements of such a bankable feasibility study have to be mentioned:

- (1) The marketing potential has to be quantified or at least estimated in professional manner, free from purposeful optimism in order to arrive at capacity planning figures.
- (2) The <u>product</u> and its cost and capacities have to be presented as well as the technology involved in its production.
- (3) The <u>financial demand</u>, the proposed financial scheme and the commercial profitability as well as the repayment plan have to be presented in a form to which bankers are accustomed.
- (4) The compatibility of the project with national framework planning and its contribution to social and economic goals should be enumerated and, if possible, quantified.
- (5) The plan of <u>implementation</u> should be added, including management assessment or procurement.

No proposal or study without an answer to there five basic questions can be considered bankable. On the other hand, no purely academic study avoiding any form of judgement will be accepted.

For this very reason, many pre-investment studies made by consulting engineers alone are nowadays being rejected, if the marketing or financial planning is missing or inferior to the technological expertise. All research and promotion activities in the pre-investment field are becoming more and more inter-disciplinary, and some agencies in this field are paping tribute to this development: Banks (like the German K.F.W.) are hiring engineers, engineering consultants are cooperating with financial

planning specialists etc. It has been repeatedly expressed to us that the times in which engineers were the best feasibility specialists are definitely over.

In addition, over-optimism, lack of alternative, absence of risk calculations or sensitivity analyses make bankers insecure even with basically interesting projects. In this connexion one has to be reminded that bankers are not as close to entrepreneurial attitudes as they themselves and most entrepreneurs think. Psychologically bankers are to be located somewhere between the entrepreneurial and the administrative world.

Fo project is bankable, either unless an investor or sponsor has been identified and is in turn identifying himself with that project. His stubtorn support is needed. If it is absent or withdrawn, or if the background of the investor (as a person or as a group of investors) does not satisfy the bank, then even the most perfect feasibility study becomes automatically obsolete. For the same reason, feasibility studies "built on speculation" (like suburban homes or skyscrapers without tenants) are considered a waste of time and effort by practitioners in the field. They argue that the bankable initiatives of non-investors never should go further than the formulation of project ideas clear enough to evoke a go or no-go decision from the potential investor to be identified later.

1.2 IS THEFE AN ACCUMULATION OF UNIMPLEMENTED STUDIES AND, IF YFS, WHY?

It is only natural that there should be a number of feasibility studies which did not lead to implemented projects, since one of the purposes of a feasibility study is to prepare investors for a yes or no decision. However, the number of unimplemented projects is far greater than necessary.

Some of the reasons have already been mentioned (lack of bankability, lack of an identified investor).

Other reasons:

- Pelay (sometimes several years, caused by institutional everlapping, bureaucratic procedures, accentific seel or a combination of these) may render even valuable projects ebsolute, for instance when prices have tripled in the meantime.
- A dedressing tendency to take personal <u>responsibility</u>, leading to checking, cross-checking and multiple evaluations of projects.
- Semetimes feasibility studies are being conducted for the sele purpose of delaying or finding reasons for <u>declining</u> certain projects.
- Some slaborate projects would have been rejected already in the ptage of project ideas if they had been presented at that stage to the potential bankers.
- Eome feasibility studies are rejected because of apparent or suspected bias.
- Some simply get <u>lost</u> in the mase of development bureaucracy and cannot be retrieved in time.

Summing up, there certainly is a waste of time and efforts which could be avoided if feasibility studies were conducted only.

- for investors already identified,
- by professionals willing to take the responsibility of judgment.
- after project proposals have been positively cleared.

1.3.1 DO THE AVAILABLE PRAFIBILITY STUDY'S PACILITATE THE INVESTMENT DECISION MAYING PROCESS?

predominantly research-minded or administration—
eriented people, then the chances are that they will
contribute little to facilitate the decision making
process. While feasibility studies have become more and
more sephisticated, requirements more and more exacting
and Government departments more and more exacting
very function of such studies in the decision making
process appears to have almost disappeared. Bankers and
entrepreseurs alike are becoming weary and even contemptions
of intellectual feasibility products that raise more questions
than they answer and shy away from an even cautious form of
recommendation, assessment or value judgements.

The trend towards standardisation of all sorts of working materials in the investment process - from country profiles, project proposals, application forms to manuals - may have increased substantially the number of people capable of handling investment procedures. On the other hand it seems to have accelerated the phasing out of judgement since questionnaires, for instance, relive the specialist from the obligation of finding out for himself amount the bottlenecks and critical points of a project. The gap between researchers and specialists on the one hand and the decision makers (politicians, bankers and entreprensurs) on the other seems to be widening, much to the detriment of otherwise desirable projects.

The solution would clearly lie in a revival of the ageeld idea that investing is a decision making process, that
pro-investment studies are "loops" in this procedure is order
to reduce uncertainties to a certain acceptable telepasse,

first investment in the project. Only if all openialists connected with feasibility studies are trained in decision-crientation and also trained to apply it in practice, further made could be avoided. The studies then would become more valuable to clients and more.

S. S. S. ANT PRACTICATTY STIPLES DIPLICATED IN A COSTLY MAY?

Let us consider as normal the maticulous crosschacking of feasibility studies by bashs or even the complets repetition of studies after the identity of the towarter has changed or if semenady becomes suspicious of a conflict of interest. Let us demand the complete updating of pre-investment studies if a time-open of, ony, a more than a year has elegand.

A regetition of studies because of conflicting interests, changes in strategy, legace of time cannot connect to and should not be avoided.

If, houses, familially studies have to be repeated because of emissions, true or alleged methodical mistakes (seen meriduide famous consultancies have been accused of grove failures) then there is more reason for concern.

Shoor mote is produced when overlapping or competing institutions are producing studies or the name subject matter.

Although it is difficult to account the quantity of this mote, it appears that the competition (or lack of coordination) between supractional, segional, subregional and national levels cape contribute more to it then berisantel competition. Some regional or sectoral studies, for instance, are quoted as being as very agricumental that they came to be useful to a operation matter.

Concretly speaking, the reasons for duplication or repetition have to be accessed community in any given case. But the overlapping of institutions and professional insufficiencies can certainly be reclaimed.

1.3.3. NOW DONE RIAS INFLUENCE INVESTMENT STUDING AND DECISIONS?

The bias on which critics have focused their attention so far is <u>consultant</u>'s bias. Consultants may become victims of conflicting interests (engineers with supplier's functions or connections for example).

Or victime of their specialized methods. They may stand or fall with the personal qualities of their project leader. However, the bias question is a universal one, not by any means limited to consultants. More often perhaps than not, government projects are realized not only when in tune with efficial planning criteria, but also when they are "pot projects" of some powerful personality, powerful enough to achieve a reinterpretation of those guals. As in any form of decision making, basic political values - and show power play - are involved.

Any project is being dealt within a magic quadrangle consisting of the invector, entrepreneur or spensor, the bank or financier, the got Anment or planner and the remoultant or staff. Every agent has his own legitimate interests, his bias, his influence and his power, however limited. All this is legitimate and should be openly discussed so part of any decision making precedure. As one leading practitioner said: Without a positive bias no project containing any rich would over have been implemented in the developing world."

1.4 NOW PERSONAL ONE ONE DISTRIBUTE EXISTING AGENCIES PITC.

Pvery region and every country her a network of its

was concerned with the tank of accelerating industrialisation

and charactery investments. Investment studies are only one

of the many instruments employed in this overall effort.

These networks consist of specialised agencies which may be run as government departments, semi-government bedies, public foundations or private enterprises. They may have come into existence seconding to a plan, answering gradually evolving meets or following presidential decrees. They may have been founded to complement, to supervise or even to bypass other elder institutions, which have become inefficient.

However, in none of the countries visited there use evaluable a plan, a scheme or a brochure describing this vital "development network" to the uninitiated. Very few pumple working within this system for years have been able to describe the basic functions, the division of labour and the gamle and procedures of the system as a whole, it is therefore not in the least estamishing to find everlapping and duplications of work due to both of coordination. It would be highly baneficial for all concerned, not only for the potential because (including the demostic one), to create transparency by accoming and publishing the system.

The sceningly irreversible trand towards more specialization, institutionalization and emphistication bearetimally calls for more coordinating agencies, houseer, the institutionalization of coordinators creates more problems. The multiplicity of institutions which have to be consulted in the investment process does create problems even if the organizations are tony officient individually.

It may be one of the major chances for UNITED to assist developing mations in this new field of structural "development Organisation".

1.5.1 WMAT EFFORTS AFE KEEDED TO OPGANIZE SMALL PROJECTS?

One of the problems of small projects is that the effort for their implementation may be out of proportion. It is a well known fact that the application procedures etc. for the establishment of a small enterprise are as egioneive as for the biggest corporations. The cons for feasibility studies for small projects may vary between 7 % and 10 % of the original investment, whereas they may emount to loss than 1 % for the big ones. The small ignester is at a competitive disadvantage. The same problem esists for development banks. The costs of examining and administering small credit accounts may equal or even exceed these of a big account, therefore there is a division of egheros of interest between banks of different eises. But the problem of equity and justice remains to be solved. On the other hand, small industry may be especially desirable to developing countries for compatibility and balance of power reasons.

Whereas some developing countries have very seriously started new programmes for the development of small entrepreneurahip (as observed in India, Malaysia and the Philippines) no remedy seems to have seen found to lesson the burden of the small to medium demestic or foreign investor.

Puture attention should be paid, therefore, to developing and authenticating simplified procedures for small projects and their investors. Simplicity and transparency of procedures would in many cases be equally important as incentive schemes and investment climates. Here, tee, would be ample space for UNITO to participate and assist.

1.5.2 WOULD THE SETTING UP OF TECHNOLOGY CENTPES BE AN EFFECTIVE MEANS OF SPEEDING UP INVESTMENTS?

Technology centres in the context of the questionnaire are meant to be advisory units for investors (predominantly domestic) in order to acquaint them with the stockpile of projects on hand (mostly small ones) and to procure technical know-how for them.

Technical know-how may have two meanings:

- The know-how of setting up business, getting credits, of following the whole complicated precedure of getting started, or
- the technological know-how which has to be procured from inside or outside the country in order to start an innovative or "pioneer" business.

These two functions should be kept apart. As there is a need for simplified procedures for small business — and for advisory services as long as procedures are complicated, there is a completely different, yet equally apparent need for assistance in procuring foreign know-how. The two different kinds of experts would be required. The second problem is closely connected with the topic of so-called "Transfer of technology" — an almost magic formula that yet has to be operationally defined. It is, however, outside the scope of this report.

As always, when it comes to the setting up of new services to developing countries: The principal consideration should be the demand for and the structuring of the services themselves, whereas an early institutionalization may render these services inflexible before they have started to become efficient. A testing period should precede their institutionalization.

1.5.3 WHAT SPECIFIC MEASURES AND INSTITUTIONAL APPAIGEMENTS COULD STIMULATE DOMESTIC INVESTORS?

The interesting question why domestic investors may be reluctant to invest in their own country does indeed merit an investigation of its own. It would hardly be professional to treat this problem as a by-product of a report on pre-investment studies. However, a few indications can be given to analyse the problem a little further:

- In many countries, there is a <u>lack of entrepreneurs</u> as a consequence of colonialism, lack of basic education, socialization or for other reasons whatsoever. Some of these countries try to create entrepreneurs artificially, a task many times more demanding than management development, for instance.
- In many developing countries the traders and dealers have become entrepreneurs for lack of candidates from other segments of society. They have a particularly short time-horizon. Profits and pay-back-periods for industrial projects require at least medium-term time-horizons. Therefore, trade-oriented nouveau-entrepreneurs hesitate to enter into true industrialization projects.
- Soft currency countries pose their own problems: Necessary parts or foreign know-how may be difficult to import, etc.

These are but a few "educated guesses" from experience; it follows that the reason for insufficient investments (or lack of re-investments) of domestic capital by nationals of developing countries is not primarily the lack of institutions or measures, but deficiencies within the socio-economic framework; conditions which are difficult, but not impossible, to change.

Agreeing that this question points to a bottleneck in development strategies, it should be investigated in depth.

1.6.1 HOW IMPOPHANT IS THE INVESTMENT CLIMATE FOR THE POREIGN INVESTORS?

This is another question meriting an empirical investigation of its own and not to be answered fully within the report.

It would be a truism to state that investment climate is all-important to a foreign investor. Since he has - in almost any given decision-making situation - a series of countries to choose from, investment climate may be labelled the competitive edge of countries. In the interest of investors, attempts have been made to classify countries according to their investment climate, for instance by the BEFI index.

The term "Investment Climate" may well comprise more than legislation (including incentive systems) and guarantees against expropriation and for transferability of profits, more even than availability of labour and infrastructure. In our opinion, it includes such intangibles as smoothness of administration, absence of traffic congestions, communication facilities from hotels to telephone services and so on, since any of these factors may become bottlenecks in business operations.

On the other hand, it can be proven - by analysing investment decisions- that incentive systems and material rewards are never sufficient in themselves to engineer favourable investment decisions. Maybe some Government planners and decision-makers do need and would welcome empirical information on what really constitutes an investment climate and on how investment decisions are arrived at in real practice.

Foreign investors will be naturally interested in all relevant information on industrial legislation etc. Incentive systems usually are published widely. However, some legislative texts are too diffuse or too technical to be understood by "normal persons". Some agencies are, therefore, trying to produce simplified versions or synopses of that particular body of legislation. Another most important question is the actual application of these legislative precepts. The bank and/or consultant chosen by a foreign investor will usually be asked to prepare detailed information about application practice. Such general information about a country should not be made an obligatory part of all feesibility studies. Expected income from subsidies must, on the other hand, find entry into the financial planning part of preinvestment studies. Some Governments would be well advised to re-think their whole network of incentives, legislation and application with the aim of making it free from contradiction, uncertainties and misunderstandings. Perhaps some UNIDO advice on this problem would be welcome.

1.6.2 WHY DOES THE PROMOTION MACHINERY NOT GENERALLY PAY DIVIDENDS?

Just as it is the goal of feasibility studies to facilitate go or no-go decisions in the process of investment decision making, it may be defined as the goal of investment promotion to engineer the consent necessary for continuing to investigate or implement a project. If this is acceptable as a working definition, then criteria for measuring the efficiency of project promotion for countries, sectors or projects can be derived from it.

Some reasons for the failure of promotional measures - and institutions - are maite obvious:

- Some countries are institutionalizing investment bureaus abroad, and some of these are more or less passively waiting for enquiries instead of natively marketing their country, i.e. defining target groups and potential investors on their own and approaching them.
- Some projects are beginning to be promoted at too late a stage, i.e. when costly feasibility studies have already been made. The true entrepreneur-investor, however, needs only a project-idea (which should be very well-formulated nevertheless) to decide whether he is "interested in principle". He will be a little suspicious of finished products. Therefore, the recurring idea of building up a stockpile projects before investors have been identified should be re-examined.
- The division of labour between research phases (and specialists) on the one hand and promotional activities (with different specialists) on the other seems to have been generally accepted and institutionalised, since hardly ever does one hear doubts about this departmentalisation. No wonder that the coordination between the "reduction of uncertainties to a tolerable degree" (by research) and the "engineering of consent to projects (by promoters) is lacking.
- While many efforts are directed towards project identification promotion little thought and work is spert on
 the equally important task of "investor identification".

 Bearing in mind that every project needs is investor (who
 may, of course, be a group or a sponsoring government) for
 becoming reality, and that inventors are even more scarne
 than viable projects, this discrepancy should be resolved.

Methods and techniques for investor's identification will have to be developed, and some techniques could be transferred from marketing. Fith some creativity applied, quick results can be expected.

1.7 SHOULD DIFFERENT METHODS BE APPLIED TO FEASIBILITY STUDIES
FOR SHOPT TERM PEIVATE INVESTOPS AND LONG TERM PUBLIC
PROJECTS?

It moes without saying that private investors generally will not engage in a project showing negative commercial profits and that such projects, of social or nationwide economic benefits are positive - will have to be realized by public sector. Projects with a definite private profit potential used to be very welcome to developing countries. Since methods of calculating social benefits have been developed and transferred (among others, by UNIDO), a corresponding critical consciousness has developed. Privately profitable projects now tend to be tolerated if they have little social benefit potential, and to be discouraged if there are indications that social benefits may be negative. Times have changed so wuickly that practically no project can avoid the social benefit evaluation. The question is not one of applying different methods but of applying the existing methodical instruments in a judicious, cost-and time-conscious manner proportionate to the project at stake.

If pre-investment studies are considered a tool in the process of decision making, they may be more or less elaborate, and the information on which they are based may be more or less extensive. It then follows that it is necessary to vary the input of time, money and effort with the scope and size of the project.

1.8.1 HOW DO FFASIBILITY SCUDIES COPE WITH THE MAPKETING PROBLEM IN SMALL AND FRAGMENTED DOMESTIC MAPKETS?

First of all, feasibility studies are not considered bankable if part number one, the marketing forecast, is ommitted of treated in a dilettant way.

Secondly, it is a fact that domestic markets are (in terms of buying power more often than in terms of needs) too small for the new capacities projected.

Buying power, on the other hand, cannot be increased with the same speed as industrial capacities can be built up.

Therefore, three opinions are possible:

- To export into the region, which requires the consent of the neighboring developing countries.
- To export into the <u>developed countries</u>, which requires a quality-competitiveness-policy.
- Or to cut down the project to the size desirable necessary for penetration of the domestic market. This in turn may lead to an economic sub-optimum.

The second option was the preferred one for a long time, since it promised to create hard currency income. However, the encounter with extreme forms of competition has discouraged some followers of the option. The third option is gaining adherents, since small enterprises for the domestic market working with unsophisticated (to avoid the term labour-intensive) technologies have proven to be a good solution to a bundle of development problems.

The first option looks like the most logical one. There is, however, little progress. Assuming that there are good feasibility studies for regional projects, the engineering of consent becomes the main problem. Feasibility studies for such projects will have to comment on the compatibility with governly national plans and the added implementation problems.

1.8.2 HOW EFFECTIVE APE REGIONAL ORGANIZATIONS IN FOLLOWING UP FEASTBILITY STUDIES?

Pegional organizations are specializing in sectoral and regional studies. Logically, they are supposed to generate project proposals. Usually, projects are defined which eventually lead to the establishment of one big investment project in only one country, to which the others have to give their consent, for which they in turn acquire the right to get another investment. The procedure although being completely legitimate and not totally ineffective, may be labelled "collective bargaining". Unfortunately, it reinforces competitive attitudes instead of creating chances for cooperative ventures.

So far, the influence and efficiency of regional institutions cannot be greater than coherence and common interest of the totality of all regional partner countries. In this context, but outside the scope of this report, the question put by some regional experts may be repeated:

Whether or not some of the regional bodies are not too big to allow for any operational common interest that can be materialized in common projects. Smaller regional associations (such as the emerging ASEAN group) are more fortunate - and may become more effective.

What does seem necessary is a new strategic concept to build up cooperative projects in order to create interdependency. According to the family principle projects can make neighbouring countries interdependent by assigning to each one of them a special role, according to that country's individual strengths, allocating the processing, production and finishing stages to different countries. In short: Due to the power and influence vacuum in which regional institutions have to work, it is not sufficient to improve the mothods of following up investment studies.

Instead, the basic approach to regional industrialisation may have to be revised.

This set of regional problems cannot be solved by the building up of regional consulting or promotion services. Consulting engineers could contribute only their engineering know-how to feasibility studies. Feasibility studies should not be executed by regional institutions, on the other hand with the exemption of big regional surveys for which there is no consulting capacity in sight.

1.9.1 NOW DIVERGENT ARE PROJECT DECOMPRES DATIONS GIVEN BY DIFFERENT AGENCE OF LEVELS MITTHE THE DATE COUNTRY?

Time did not permit to concentrate on the question of diverging opinions, interests or value systems within a given country. This question becomes very relevant when the interplay between feasibility studies (proposals by proponents) on the one hand and project evaluation by governments, banks, etc. on the other is being studied. Since every agency not only has a specialized function to fulfill but also a certain value system to obey, there may be different opinions on one and the same project, fost conflicts arise when private commercial profitability criteria on the one hand and social-ecoromic benefict criteria on the other differ widely. This conflict is familiar to everyone in the business and, since there are me standardized rules on how to decide in such a situation, the outcome cannot be precisely predicted. Interesting to note perhaps, that some countries allow for three options in such a situation of insufficient social benefits or of menconformity with governmental planning;

- To revise the proposal.
- To revise some of the criteria of the planners.
- To drop the proposal.

Such a flexible method does allow for a learning process on both sides, for private investors and matienal planners.

1.10.1 MOW CAN THE PROBLEM OF PROCURING BASIC BATA FOR PRASIBILITY STUDIES BE SOLVED?

depend on the availability of data - and on the quality of informations. Both may be difficult to obtain in some countries, and a true remarcher will never be content with the data material that has been made available to him. But that is exactly the border line between research and decision making. In a decision making process, a tension has to be reached anyway, as it is the function of research to reduce uncertainty. The insufficiency of data can therefore, in principle, never serve as an alibi for delays or failure to present feasibility etunies. Instead, substitute techniques like estimates, educated queses etc. have to be applied.

On the other hand, a definite need is felt by the experte - for a sert of general and comprehensive information on major feasibility studies conducted (such as previously published by UNIDO).

- for a magne "data bank" at UNITED or elecutione containing the mum total of economic information,

het counting the innumerable difficulties is creating, convicing, updating and utilizing such a features a data system, it come that by subscribing to the decision making approach come of the appetite for complete data will disappear.

Post of the remand much be safe feel at a fraction of the out of ar information symbol by responsible, centralised incommentation as follows:

- All .F. agenties are nearested to send one capy (or more) of their femals: hity states to Vienna.
- All experts conducting or evaluation new atualies in a given menter or region may sak for a first of sources and may under the studies they went to read,
- As the only return favour lemander they are remained to comment on and supplement that feasibility study which they received.

2. Pecammendations

It is the permenent tank of "" O to accelerate the industrialization of the developing world. The generic term for the world, the generic term for the world, the generic term for the world, of nervices afford my "" Of to governments remnesting UNIBO corrides is "" ochronal Assistance". Following the LIM Conference, a number of new sections have been created following an expression of terms, among others to Peasibility Studies Section which is the "client" of this report and the Organizer of the Expert Group Meeting on Pre-investment Studies.

Following the basi marketica approach a crise to them, this would have to evaluate its own services a compact, the same of ringer criteria suggested by 17.00 for images evaluation, and to employ feasibility a adves for its own that he corrections to the pre-investment scene, just the same way tankatia feasibility.

Obdies should be prepared according to our findings.

In this context, services, services the hold of the context and services of the context are series;

The third of another meet actual nemeric of the context are series;

They should be proupe and their monds. They should be shown in the context of product a country, necessary and development as well as value and is.

2.1 Trange in 19-Investment to a Malaking

the not to similar this to a recommendation will be bounched to the not to similar tisture. The recommendations for changes to examination are approach, however, it is the formulated being:

- (1) reserve the restriction shows the following the restriction of the

alternatives, it is the first out of present in to engineer decisions and to bring about positive is injuries. Both activities which may be not be outlined in some aligns from an longs in the constitution of process of investment of is on merical.

- (3) Implementation should be one with a connected with Hemsibility Studies and Project Heal atom. He kan a temperative of mindism will have to contain a real size last for implementation connections will be removed to participate of a light amusement a ring the implementation period in the connected of the participate and the implementation period in the connected of the participate will diminish.
- (4) The induttification of potential projects will because an important and the liestification of projects. Trivate a constant, but also government officials baking the fill responsibility for a project, are "scarce animals". Passe so in attribution of responsibility for a project,

and argo the pr ment number of entropronours already engaged to terrisposest investments. Artime tempet group marketing will be necessary.

- (3) It principle, the jameter (or spender) should be the client of a free billion about, since such a study to in a way a compatibility that between an investor and a project idea. Therefore, the idea of creating or manufacturing a stockpile of finished femalability studies ready to induce a positive anneatment decision should be discounted. Instead, it will be sufficient to maintain a certain professor of well-defined project ideas preven to fit into the national planning school.
- (f.) The syliminosom with which the instruments of pre-inventment guiderns are at present being applied to now projects should be second library. In many common it may be more advisable to now minimize an miliary from decay, alling or failing them to build up now ventures. Fince enterprises (or public corporations) which happen to be in trouble cannot be seved by applying concernation methods, a transfer of methods from new enterprises foundation to justified. Redol comes are under way (in the Sudan).
- (7) In principle, foreibility studies should be conducted by generalization between of their granter flexibility, especialization and dependence on elicat satisfaction. Pulse for the selection of consultante being widely known, account should now be placed on the heat methods of cooperation with them, beginning with briefing and ending with reporting or implementation. Interesting models of cooperation are presently being tested, by which consultants take over the quality guarantee, the authorization and reporting responsibility, whereas the field force of the elicat organisation is being whilesed simultaneously (by 1978), force).

- (8) In principle, project evaluation should be made by banks and government agencies and be restricted to cross checking project proposals and feasibility studies rather than duplicating insufficient feasibility studies. The better the quality of proposals and feasibility studies, the easier banks and governments can concentrate on their original tack of evaluating projects in order to select the best once for realisation.
- (9) Cont consciousness will have to pervade the whole field of pre-investment studies. As of today, the costs of pre-investment studies are known only to those institutions that are employing consultants, and even there the costs do not include client participation costs. If studies or evaluations are made within a bank or government organization, no cost estimates are available as a rule. First attempts are just being made in a few of these organizations to account for internal time (man-hours) spent on a specific project, by adopting the man-hour recording and accounting system of the consulting profession.

No reliable informations exist as yet

- on total expenditures for pre-investment studies per country,
 octor, region or project,
- on proportional expenditures for such studies in comparison to total investment volume or in relation to unimplemented proposals,

Since the same deplorable state of information exists with repard to premotion costs, it may safely be said that neither the order nor the proportionate costs of pre-investment activities can be quantified. For this reason, no judgement on waste or efficiency can be ventured, either. Since the costs may be anywhere in the region between 1 f and 10 % of the investment values it seems absolutely necessary to implement unsophisticated methods of accounting for time and monies spent in the pre-investment phase.

(10) Even more important than cost consciousness is time consciousness, though even less presently practiced.

Time is of essence, especially in investment preparation.

If a feasibility study or project evaluation takes a year to complete, prices, markets and government regulations may have changed so much that the finished product has become a museum piece. If the project is of vital interest to a government, a population or a private corporation, the negative opportunity costs (the loss) may be quite considerable. Unfortunately no model calculations of such economic losses have come to our attention. A delay in vital projects may even endanger the very governments that have promoted the original idea.

For these reasons, some Arabic development banks are presently concentrating on time-saving procedures for the identification, selection, feasibility, evaluation and implementation phases of a project. Consequently there may be a need for some sort of network planning for the pre-investment phase in analogy to the network techniques applied in project management. There may be - and perhaps there should be - an application of basic project management techniques already in the pre-investment phase.

- (11) The roles of all development agencies (government planning boards, consulting firms and banks) within the network of industrialisation—should be defined not only individually (as has been done in some beautiful brochures) but it relation (cooperation or competition) to one another.
- (12) The terminology confusion in the pre-investment field should be terminated, since it has become a merious handicap to practitioners in the field and to their communication with professionals. Since terminology, however, reflects a system

of thinking and an approach to problems, terminological clarification presupposes the construction and formulation of a new, more timely, approach to the acceleration of industrialization.

(13) The role of banks might have to be expanded. Development banks are already being confronted with the task of feasibility studies, project evaluation, management assessment or even management lessing and supplying equity substitutes for equity in addition to the loan capital.

The banking systems are among the best established and most professional organisms in the developing world.

Some development agencies are coming into existence that actually combine banking, consulting and planning functions. This trend should be observed and evaluated, so that recommendations can be made by UNITO.

2.2 UNIDO's Pole in Pre-investment Decision Making

Supranational Institutions like OECD and the World Bank have presented their own approach to the problems arising in the pre-investment stage. Their approaches consist, to a different degree, in a system of thinking, a methodology to be followed more or less rigidly, and a terminology consistent in itself, but not necessarily generally applied. The relative virtues of these approaches have been assessed and compared.

The UNIDO approach is more fragmentary. UNIDO to amage is mainly associated with scientic efforts to upgrade the techniques of project evaluation. Only the more scientific minded specialists in the field, however, do know this approach and occasionally refer to it. Very few find it practicable.

Yet there are good "market chances" for an entirely new approach to problem solving in the pre-investment phace, and there are good chances for the implementation of such a new approach by UP 70 if UNIDO decided to develop and to actively "market" it. The new approach should satisfy the following requirements:

- Greater simplicity,
- Applicability to small projects and small investors.
- Some of the 13 lasic recommendations mentioned above under 2.1.

 These suggestions should not, however, be misunderstood to imply any lowering of logical, scientific, or professional standards.

 What is really meant is the need to produce simple and handy tools instead of sophisticated instruments. Thus, some additional efforts are required to "transfer feasibility technology" to the developing countries and their own specialists.
- In short, we recommend to TOUTO to elaborate the investment decision-making approach in all its aspects. The role of UNIDO as a catalyst, a pioneer and a coordinator would virtually remain unchanged or be revived.

Following the strategy of indirectly servicing the investors by reinforcing the investment agencies, UNIDO might concentrate on 6 points:

- Simplified methodology, neither in the sense of competing with university professors; nor in the sense of a "terrible simplificateur", but of a transfer agency. For instance, the computerization of financial plans as contained in feasibility studies may be rejected by field specialists, while being demanded by the big development banks, UNIX would in or the case 'etermine in what cases and under what communications constituter-aided techniques should be applied on which person or united a could supply the most practicable know-low.
- Model cases development. This is in a cross, we man position to initiate model cases (like the first application of a cert in computer-aided model in topal), and it was as in a better position than any other organization to collect and compare the finished products of development agerties.
- Thus, for instance, the most important allowers, like feet bility studies, the most effective product. The most effective investment production available of a proof product in time could be presented (of course, without too obvious a judgement) to upplies clients in the field.

- Development of standardized working aids and materials like feasibility study manuals. This would be in continuity with what UNITY has done for years.
- Clear terminology. Present terminology (in the pre-investment studies field) has been derived from scientific and banking sources and not actually from investor's or field specialists experience. If the approach is changed to decision making and processual thinking, then a new terminology could be more simple and practice-oriented than the present one.
- Organizational solutions to development agencies. Structural, procedural and information problems present themselves in many of the development agencies. UNIDO assistance in this hitherto neglected field could prove beneficial. It would be relatively easy for UNITO to gain access to the organizational molels, charts and ileas prevailing in the field. Almost everywhere new ideas, moles and concepts are being discussed, tested or implemented. UNITO could help chanelling these discussions.
- Quick identification bottlenecks that prevent a flow of bankable projects through the development network.

3. Swamping

- (1) The reasons for a surplus of unimplemented pre-investment studies on the one hand a lack of bankable projects on the other are menifold. They are not limited to methodological insufficiencies. They include the <u>intransparent move of development agencies</u> with their overlapping and duplication, the widely divergent attitudes and interests of planners, bankers, investors and administrators. Even professional feasibility at miss on viable projects are becoming obsolete if too much time elapses after their completion.
- (2) There is <u>little cost consciounness</u> nor time-efficiency thinking in the pre-investment field.
- (3) The field's expectations concerning UTTO future activities in the feasibility field are rather modest. On the other hand the chances for a new approach to the solution of pre-investments problems, to be developed and implemented by UTTO, are great.
- (4) A new approach would have to be derived from the decision-making concept according to which desearch would have the function of reducing incertainties to a tolerable degree, while promotional activities would have to produce consent to the different maturing stages of a project. A condingly, terminology could be clarified and simplified. Furthermore, some "tottleneck-thinking" could be applied successfully.
- (5) UNIDO's best contribution to its farent officents (the agencies) and their clients (the investors) could well be a new strangy for speeding up the process of pre-investment activities. An institutionalized service centre to be created by UNIDO would then be an instrument to realise this strategy and to solve the UNIDO's client's problem whatever they are in a very flexible, interdisciplinary way. Therefore, this INTO task force should not be

as well as endorsed and before precise requirements have been formulated concerning the man-power of that task force. It is wital that the new UNIDO strategy vis-a-vis the pre-investment problems should be developed first, and that this strategy be based on a truly empirical observation of the problems and bottlenecks of UNIDO's clients. This does not necessarily cause great costs in terms of time and money. To the contrary, a period of 5 to 6 months should be sufficient - plus the time needed to secure the necessary consent by the executives of UNIDO.

(f) The "task force" to implement the new approach and to assist

UNIDO's clients in solving their problems and bottlenecks should

be built up according to the requirements of the new strategy.

Flexibility, inter-disciplinary methods, time- and cost-consciousness will certainly be among the requirements for members of that

task force and for the group as a whole. In order to meet these
requirements, the group will have to consist not only of UNIDO

efficials but also of consultants - and of even more specialized
experts from time to time. Project management would be practiced,
and "institutionalization" be avoided.

HUYPT

Dr. Vincent M. Barnett Mr. Mohsen Arafa	Project Specialist Public Felation Manager	The Ford Foundation -Misr International Bank	Caire Caire
Mr. Emad Ahmed Eid	Senior Tesearon Officer	-Investment & P.Z. Authorit	y-Caire
Dr. James P. Dee	UNITO .		Yionna
A.M.A. Abiel Pahman	External Pelations Section		Caire
Pobert P. Armstrong	Foonomic Advisor	Tinistry of Economy and Economic Cooperation	Caire
Stephen J. Szivos	SIDEA of UNITOO	ULIDP	Caire
Dr. Gamal El-Sahrawi	Under Secretary of State for Free Zones	Arab & Foreign Invest- ments & Free Zone Authorit	Caire y
A. Karim Hilmi	Director, Mechnology and Design Division	Industrial Development Centre for Arab States	Caire
Nehamed Helal	Director, Industrial Policies and Programmir Department	IDCAS	Caire

KHA PTOUM

Stelion Theocharides M.Sc.	(MIT)- Chief Technical Adv International Labour Office	riser- Management Develop- ment & Productivity Centre	Martoun
Jan E. Wuhlberg	Programme Officer	tiku p	Charto um
Abdel Karim Yacoub	Chairman of the Roard and Direstor General	Fanagement, Development & Productivity Centre	Charte um
Mamoun M. El Sayed	Deputy Thairman and Deputy Managing Directo	Sudan D evelopment Comporati r	on Khartoum

KUWA I T

Nohamed O. Abdelmoneim	Apar Puna tor Meduate and Faular seve deme	Aum I v
Tarek Hosni	#	Kummait
Dr. Enhmoud Amin	Organization of Arab Petroleum Exporter - Countries	Kumit
Jamil K. Obeid	Senior Systems Consultant -Talal Abs $Ga \in \operatorname{Gleh}$ Associates $L^{*}(\cdot)$.	
Phymond A. Kettoneh	Arab Suns for The component Original Device poment	Kumit
Majed Pader Jamal Al-Dir	The Advisor Frank Chamber of Commerce	1

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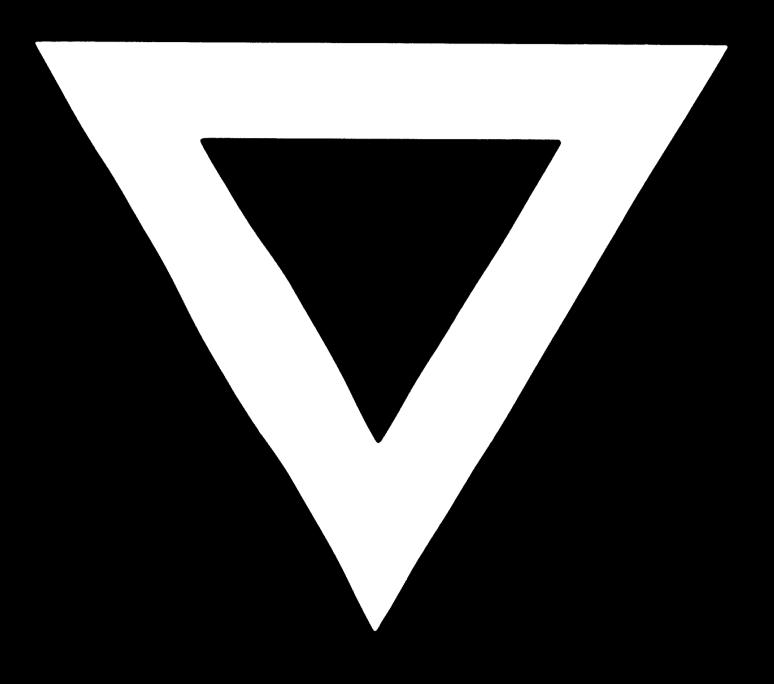
MILLA LUMPIE

Mussein Rin Maji Mohamed	Chartered Engineer	Hussein &k.h.Chong San.	Kuele L.	
Leong Thee Meng		European Asian Bank	Kuela L.	
Salim Bin Date Commn	General Manager	Bank Sembangunan Malaysia Berhad (Development Bank of Malaysia Itd.)	Kuala L.	
Akimasa Inoue	Consultancy Adviser (Colombo Plan Expert)	National Productivity Contr (Ministry of Trade and Indu	re, Petaline ustry) Jaga	•
Dr. Vilfried Pupprecht	Counsellor	Embassy of PPC	Mala L.	

WING KOK

Kurt W.P. Aselmann	SIPPA of UNITO	ULL	Panghok
J. Jasin	Minister Counsellor	Alternate Permanent Pepresentative to ESCAP	Banghok
Adriano F. Carcia	Tes.Pep. of UNDAP		Bangkok
Tai-Doo Chung, Ph.D.	Division of Industry	•	Pangkok

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