

## emeronTI7

## Technology Transfer (T.T)

I.-Ekal bNn géméron

kjéméronTbeyh)ansksGMRknHsMn<sup>2</sup>kjkarKbRgbeckRvTüa kjéméronbB@enHeyhny  
el kykkarepþbecRvTüamkBPakSa.

-etGðakarepþbecRvTüa?

-bENgEckkjökarepþbecRvTüa

-ethanmeFüa)aybønkjkarepþbecRvTüa?

-etI MlenkarepþbecRvTüaRBTbtAmanbuñ?

-bTBesafénenkarepþbecRvTürbstRoetsCa Tiger of Asia

II.-esckph

db)anerbrabkjéméronTII becRvTüaCakabM gnukM cMHDy nigFnFanepSg<sup>2</sup>eTACa  
plitpl nigesvakm dßenHansMysfætbecRvTüakiteLbenAkjGgRbmYedayrebobNa?  
sbicgcattbecRvTüaGacektmaneLbjBheFüa)ayFBBIKWTII tamry<sup>3</sup>karepþbecRvTüa (Technology  
Transfer) njkarRsarCa njGPiDÆ kjéméronenHeyhny skSætel GðakarepþbecRvTüa.

II.-niymný

karepþbecRvTüaCatMnkarEdI eFGaybecRvTüamanI MBRbPBETAGkTTY (Technology

Transfer (TT) is a process that permits the flow of technology from a source to a receiver.).

EdI RbPBCamSéncMHDy njGkTTY CaGkEdI TTY RoeyacnBcMHDy. RbPBnjGkTTY  
GacCabKÍ Rkmhñ bRoeTsmly.

II.-bENgEckkjökarepþbecRvTüa TT Classifications

BakükarepþbecRvTüa)anEbgEckCaRcheTAtamTMMigcMayénGkeþnjGkTTY .

xageRkanCakarEbgEckmYchM<sup>3</sup>

-International TT

becRvTürtU) anepBRRbeTsmlyeTArbeTsmyeTot . ] TahrNBRbeTSedI man  
] sSahkmTMBbeTbeTSedI man] sSahkmpxSaybmFumdbCaRbeTsGæmric eTArbeTschi.

-Regional TT

becRvTürtU) anepBltmlyénRbeTsmlyeTAtlmlyeTotkgrbeTsdbKā. ] TahrNB  
hgkgénRbeTscheTAesagéhénRbeTschi.

-Cross-industry or cross-sector TT

becRvTürtU) anepBlisXmlyeTvisXmlyeTot . ] TahrNbecRvTüedI eKerR)askj  
visXeyafæTBaNCKmpdCabeCvTüaInternetBædmeLgeKerR)asyakjvisXeyafækaysRgA  
mRtCakRtU) anbBaek) anbEgVaetAerR)askjvisXBaNCKmpnjvisXepSg<sup>2</sup>eTotetAvj .

-Interfirm TT

becRvTürtU) anepBRRkmhbmlyeTArkmhbmlyeTotEdI CarkmhaxsKata my<sup>3</sup>

Benchmarking, Reverse engineering, Licensing or Franchising.....

] TahrNbecRvTüedI eKerR)askjRkmhbpI itkmpa eTArkmhbesvkmþ Cædh.

-Intrafirm TT

becRvTürtU) anepBkEngmlyénRkmhbeTAKEngmlyeTotEdI CarkmhEtmytamry<sup>3</sup>

Training and Development, Follower Operation .

] TahrNbecRvTüedI eKerR)asenAsíkkNhl énRkmhba A Rtu) anepbeTAsakadet  
eToténRkmhbaA.

#### IV-CrnþI MbbecRvTüa Channels of Technology Flow

becRvTüaGacepbhLBkEngmlyeTAKEngmlyeTot tamry<sup>3</sup>crnþaRchdðCæ

-General channels

karepbbecRvTübeMNHdgRtu) anekteLbjedayKpnkarlkagTkEdI RoRBtþTAdayGkeplnjGñ  
kTTV KpnTMkTmgngKæT . karepbRtuFELbjCasafaN<sup>3</sup>KpnRBlnnig r)ajcBH GkTTV enH  
eT] TahrNkarepkjvisXGbrNBNhl CasafaN<sup>3</sup>tamTbTSn\_vTüakæst TsSnabdb  
skesal aædh.

-Reverse-engineering channels

karepbbecRvTübeMNHdgRtu) anekteLbjedayKpnkarlkjBGkepljSaf GkTTV  
cMNHdgTcaGkxitxMrbestjy I BbecRvTüaSbecRvTüetÉkÉgkjnyRokYRbECgbedj e

CbKä.

mannYfaGkTTV BüyanEsly | BbecRvTüEd | manenAkjpl | itp | rbsGkRokTRoECg  
bRkmhdeTeTotedlm,beglpl | itp | enaEdrEtmanrBragnllepSg .  
meFü)ayenHchekltmaneLbenARbeTsEd | manc,abkmpstBaxSay ehlyGkTTV man  
| TpBRKbRKankgkareFRtabtanddCakmhla A GacTjj p | itp | BRkmhla B enAkjTbSrehly  
eFI reverse-engineers el pl | itp | enahbnbmkp | itp | nigdakl kp | itp | enahETRokTRoECg  
Camlypl | itp | rbsRkmhla Bvij .

-Planned channels

karepbecRvTüaefILhedaymankareRagTk mannyfaGkTTV nigGkeplmanEpnkar nig  
tNlkareplc,as; as; eKeXlj manmeFü)ayCaRchRTUandBRyaskij Planned channels  
dBCa³

Licensing: CakaTjj nusITkgkareB)askMtbbecRvTüBmasKMtbbecRvTükgkM  
my (the receiver purchases the right to utilize someone else's technology.)

Franchise: vaCaTjjmYrbS; Licensing Ed | GkTTV Tjj nusITkgkareB)askMtb  
becRvTüBmasKMtbbecRvTüEtjaxGkppl manpl bEnbnukakall d | GkTTV dÜCa  
karptplgutBatedlm Katt kareFvbsar nigbNpNpl bKA kCædm. ]TahrN\_

McDonald's, Burger King, and Pizza Hut. (a form of licensing; the source usually provides some type of continual support to the receiver, e.g. by supplying materials, marketing support, or training, such as McDonald's, Burger King, and Pizza Hut.)

Joint venture: CakarcgsmlfagRkmhla2 berchedlm,bgl »kasGacVkmplYeTot  
Ed | PaKhmly2GacEckrM knlCnHdnyigFnFanepSg2rhKædm,GPiDAbecRvTüasM;  
pl | itp | rbsBKEK. ]TahrN\_Rkmhla Sony nig Errison cgsmlyKædm,pl | it)an  
TlsB

SonyErrison . (Two or more entities combine their interests in a business enterprise in which they can share knowledge and resources to develop a technology for their products. International joint ventures are common because the recipients acquire technology while the sources gain access to local markets and distribution channel.)

Turnkey project: CakaTiykKMagnlyTayrsgrbsRoetSmlyeTAGnutnARoetSmly  
eTotEtmy e.g. large computer system . (a country buys a complete project from an

outside source and the project is designed, implemented, and delivered ready to operate, e.g. large computer systems)

**Foreign direct investment (FDI):** Cakavnieyakpbl rbsRkmhGnbCateTArbeTs deTeTot . RkmhGnbCatenahp l itp l itp l ngyvnieyakFnFanrbsBkeKenAekArbeTs Ed l xÜKtfamanskbnB l edaynaykeTahcNhdg becRvTüaFnFanmss hirBaftCædmehly)anmkvij nUTpSrp l itp l .

(a multinational company always produce its products or invest some of its resources overseas. The investor gains access to a labor force, natural resources, technology, or markets, e.g. Philips, Motorola. The recipient country receives technological know-how, employment opportunities for its people, training for workforce, investment capital for infrastructure development and tax advantages.)

**Technical consortium and joint R&D project:** karBaPrvagRkmkargaBtberchBl RbeTsepSgKædm, GnutKMagFMEd l Rkmkarganhly2minGaceFTA)anedayÉkÉgeday kgHbecRvTüaFnFanopSg2Cædm JTahrN

consortium was formed between France and England to develop a supersonic plane (the Concorde). **Ggkar** NASA was joint by many countries.

## v.-bTBesaFnénkarepbecRvTürkjRkmxNBnpCati

-International Technology Transfer

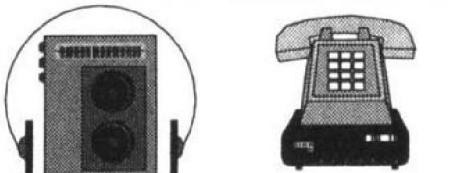
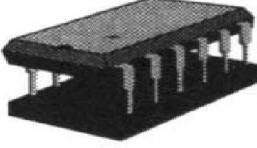
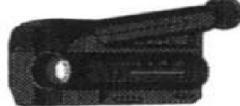
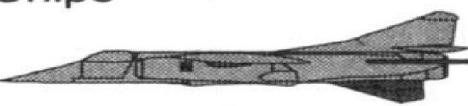
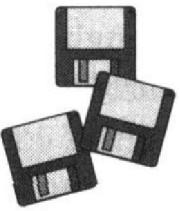
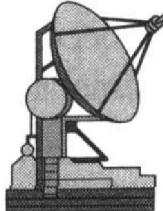
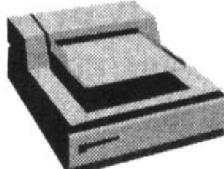
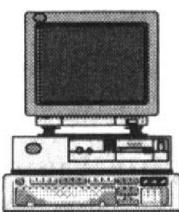
kjbpmTsvtsgekayenheybsegteXlj RbeTsedl man]ssShkmplll asCaRch(Germany , USA, France, Japan...) )anepbbeckRvTübsxhæTArbeTsepSg2Ed l Bllmankar GPiDAntamry3 FDI, Joint Venture, Licensing, Export Cædm. sBtffanRbeTs]ssShkmplBCaRch)anrk l ll as; elbj (China, Singapore, Taiwan, Korea... ) Camlyngml dæbecRvTüed l GaceFobeTamyRbeTs ]ssShkmplas2mlycm)an. ehlyRbeTs TagenakayCaRbokTRbECgyajxalCamlyRbeTsEdl GPiDAntehly tamry3KINsm,tþa RbeTsedl manefklMajB l kmTabslMteAdayvtBatedh nigbecRvTüafB. manniakarmy eTotekltmanelbjerkayRbeTs]ssShkmplB)anekltelbj dþCa RkmhGæmrícmlycm)anetAFV vineyakelvisypl itkmpnRbeTsdeTEd l mankMajB l kmTab nignaykp l itp l rbsBkeK eTACitnyGtfcnEtmb. manRbeTsCaRch)anCRmj eGaymlJ da becRvTübsBkxÜ nymalTmeTot ehlybll gbecRvTüaTgenahTaca value-added products and services. edayELkRbeTsæATnexSayEpk]ssShkmplycm)anbnþRmj eGaymankarepb becR-

vTüakanEtxaMlytany<sup>3</sup>begibriyakas | VMB; FDI nİgbBaFnFamnssSeTAkbykbecRvTüB  
RoTseCOnel Onel BPBel ak.

manRbeTsCaRchcabepheGay temol Isar<sup>3</sup>sMnenbecRvTükgkarGPiDñesdkc

### XerbsGastu (The Tigers of Asia)

ci (hgkg) ktxagt, y shhÁY nijétvan;TTV )anPæcakCxyagxel karepbecRvTüa  
ehlysBfayCakBöEcgmlyrbs;TbSrGnhCatel pI itdtxagekam. BkeKmanCMaj becRvTüa  
daçdayELkBKdltaragekam. edh, bCosvagnukarRokTbEcgKñayel vis½becRvTübs  
CaRkGastalmenah)andCserlsTbSreKal edAigÉketSeroq<sup>2</sup>xikGkarbM gnubecRvTübs;  
xHETACap I tpI EdI man I MofikBPBel ak (world-class products).

 <p>Audio Appliances      Telephones</p>  <p>Electronic Games</p> <p>China</p>	 <p>Memory Chips</p>  <p>Video Appliances</p>  <p>Aerospace</p> <p>S.Korea</p>
 <p>Software</p>  <p>Digital Communication</p>  <p>Biotechnology</p> <p>Singapore</p>	 <p>Application Chips</p>  <p>Computer Peripherals</p>  <p>PCs</p> <p>Taiwan</p>

## Intrafirm Technology Transfer

CakarephbecRvTüaEd I ekltelbyBepkmyrbsGgRabetaEpkmyleToténGgRabkñI kN³Ca  
RobBñgsñPaBkarBPaksKa.  
edhn,Gnutþefüa)ayenHkRtibegitRkunkargamlyCacaMædh,RKbRKgkñkarephbenH.  
RkunkargamanthAtkñkarbegitKmagEBI erI aKMagicNay erobcMKEng  
eClerlsnigbNþbNþl bKñ k.

## karþngTismlychMicBa karbegitRknephbecRvTüa

Several guidelines for setting up a transfer team:

- n RkmEd I mansmackkanettickanft I ✓ The smaller the team, the better.
- n RkmRtibefikarenAkñbriyakas I ✓ COCAk;nigpasjkPß People work best in an atmosphere of trust and healthy competition.
- n karbegitkargarRkmnigkarel kThicis smackRkmCañtsMan; Building teamwork and motivating the team members are critical.
- n karbegitkargarRkmnigkarel kThicis smackRkmCañtsMan; Chain of command and communication channels should be well understood by all.
- n manRoFambT nigrý³ßI c,as; as Clear topic and limited duration
- n PaBeckCYGarsYel KNPaßenmnisSenAkñRkmEd I )anerClerlsedhn,Gnutþarga Success is largely dependent on the quality of the people selected to perform the tasks.

## vi-Snða

karephbecRvTüaCatMñkarénkarTTI ykcMñhdg KMT becReTsBGkmanchMñhdgjTA  
Gkcg)anigRtikarcMñhdgenah. karTTI cMñhdg tamry³mnisSCanefüa)aymlydmansRosiTßB  
énkarephbecRvTüa. karephbecRvTüamEmneFU\_bEtmbenahET vaCaskmPaEd I RobBñpTACðnb  
rhñ. eKGacephbecRvTüBkEngmyleTAkEngmyletamry³karbegitkmFbNþbNþl skosal a  
pSBþSayCasFaN³caedhn.

## BPaksRkm

1-dhtGKcatTkfakarephbecRvTüavamans³sMñsmB;TakMnCatingGgRab?

2-ctþI ]TahrNxI²BkarephbecRvTüed I ekltmanenAkñ]sSñhkmpanakñReTsksmga?

3-erGky | RsbbeTfakarTTy ykbecvTüavamsa<sup>3</sup>sMnsMokarkchMrbsGgPAB  
mY?

4-ekfakarepbevTüBitCamansa<sup>3</sup>sMnNassMokarGPiDAnesdlichDtskm&a  
ctBnül ehtpl ?

5-Reading case study “Technology Transfer in Taiwan”