

Ex-post Evaluation 2010 - Brief Report

Cooperation Project - Chinese-German Training Centre for Printing Techniques (CDAD) - Hefei, People's Republic of China



Im Auftrag des: Bundesministerium für wirtschaftliche Zusammenarbeit und Entwicklung



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Produced on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ)

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On behalf of:: The: AFC Consultants International GmbH / GOPA Consultants GmbH joint working party

This report was produced by independent external experts. It reflects solely their opinion and assessment.

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Tabular overview

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The evaluation mission

Evaluation team	Fritz Feder, international consultant
	Ying Xu, national consultant
	Xian Wu, interpreter
Evaluation period	05 - 29 Oct 2010

The development measure

Financial Cooperation (FC) measures				
Project title FC: Cooperation Project - Chinese-German Trai Printing Techniques (CDAD)	BMZ No. 2003.66.294			
Amount: EUR 6.39 million		Disbursement status: EUR 6.39 million		
Recipient / Project executing agency: CDAD Hefei (Anhui Province)		Project appraisal report: 25 Nov 2003		
Overarching objective: To promote employment in the Chinese printing industry. Project objective: To provide needs-based education and training through expanding and improving capacity by means of this project.				
Timetable	Project appraisal	Final evaluation		
Start of implementation: 06/2004	06/2004 – 05/2006	6/2004 - 04/2007		
Implementation period: 20 months	23 months	34 months		
 Start-up: CDAD Vocational College: 30 Sep 2004 Equipment delivery: by 10/2005 	30 Sep 2004 04/2007	30 Sep 2004 04/2007		
Totals costs in million EUR	Project appraisal	Final evaluation		
Equipment and machinery for CDAD	EUR 6.388 million	EUR 6.386 million		
Technical Cooperation (TC) measures				
TC project title according to contract Chinese-German Training Centre for Printing Techniques (CDAD)	Project number (ar. appropriate) Project numbers: 1995.2144.4 and 20	nd previous numbers if 03.2209.9		
Overall term broken down by phase : Previous project: 10/1986 – 04/1998	Total costs: DM 18.323 million			





Overarching objective as per the offer:	1
Anhui Press and Publication Bureau, Hefei	Chinese-German Training Centre for Printing Techniques (CDAD)
Lead executing agency/ agencies:	Implementation partner:
	Partner contribution: EUR 8.400 million
	Total disbursements (actual): EUR 4.526 million
Phase 3: 06/2004 to 12/2007	Total contract: EUR 4.990 miilion
Phase 1 & Phase 2: 01/1998 – 05/2004	Total TC contribution:
CDAD Project	EUR 0.900 million
(Hefei Schoolbook Printers)	EUR 4.090 million

Overarching objective, as per the offer:

The Chinese-German Training Centre for Printing Techniques (CDAD) in Hefei to serve as a template for the development of printing industry training systems in the People's Republic of China.

Target groups according to offer:

Male and female school leavers who have completed basic or advanced secondary school education; printing workers with professional experience and qualified printing personnel from printing companies.

The rating

Overall rating	2	
On a scale of 1 (very good, significantly better than expected) to 6 (the project/programme is useless, or the situation has deteriorated on balance)		
Individual rating	Relevance: 2; Effectiveness: 3; Impact: 2; Efficiency: 2; Sustainability: 1	
1	1	



The subject of this joint ex-post evaluation by KfW and GTZ is the '*Chinese-German Training Centre for Printing Techniques*' (CDAD) cooperation project in the People's Republic of China (PRC). The evaluation was carried out between April and December 2010 by Mr Fritz Feder (international consultant), Ms Ying Xu (national consultant) and Ms Xian Wu (national interpreter) for AFC Consultants International GmbH and GOPA Consultants GmbH, who were working together on behalf of GTZ and KfW. The field mission in China took place between the 5th and the 29th of September 2010. The consultants analysed relevant programme documentation and led focused discussions and structured interviews both in Germany and the PRC. At the conclusion of field evaluation, a presentation of preliminary results took place. This was recorded in a joint protocol with project partners.

As lead executing agency, the Anhui Press and Publication Bureau in Hefei took responsibility from the outset for implementing the CDAD project, which was completed at the end of 2007. The CDAD, which was also located in Hefei and had expanded and developed since the project began in early 1998, served as implementation partner. Project duration extended to nine years in total (January 1998 to April 2007), and was divided into three phases. The involvement of KfW / Financial Cooperation (FC), took place during Phase 3 (FC component duration: April 2004 to April 2007). This comprised the financing of printing presses produced by German manufacturers (Heidelberg, Koenig & Bauer [KBA] and Manroland).

In the wake of drastic economic reforms, the Chinese government became increasingly active from the mid-1990s onwards in the area of vocational training. However, the education offered was too theoretical, and businesses played little part in practical training activities. As a result, the knowledge gained failed to meet the vocational needs of the country's various business sectors. Secondly, there was a lack of skilled and middle management personnel in the printing industry, both within Anhui and in other provinces of eastern and south-eastern China. This, among other factors, served to restrict growth in this industry sector (the core problem). New Chinese regulations on occupational training, together with the introduction of a collaborative model for training activities, aimed to lift the standard of vocational education and develop highly qualified staff. At the same time a trend became apparent in 1997/98, during the planning phase of the CDAD development measure, which had a significant effect to the contrary; China's printing industry was developing into an emerging business sector, and was becoming dependent on qualified staff. By the same token, experience with the 'Hefei Schoolbook Printers' project (which preceded the CDAD programme) had highlighted the need for further qualification initiatives in this sector. Having identified the core problem delineated above, GTZ decided, on the basis of these insights, to train skilled printing

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personnel in line with the German 'dual system' model, and to establish an effective, highquality vocational training institute for printing trades and tasks which would have impact across a broad front. The <u>target groups</u> for the CDAD development programme were young men and women who had completed their secondary school education, and skilled printing workers, especially from rural regions of Anhui Province.

Original concept planning for the first two phases of the CDAD project, which comprised solely Technical Cooperation (TC) activities, followed the usual objective-oriented project planning (OOPP) principles. With the beginning of KfW involvement in 2004 during Phase 3, the objective system became more diversified. At this time the new contract framework (AURA), which was more tightly focused on anticipated results, came into effect. For this independent evaluation the consultants involved reconstructed a common results chain for TC and FC. This was based on existing hypotheses of cause and effect, and allowed the available objectives and indicators to be integrated in a sensible and practical fashion. The joint FC/TC overall objective is stated as: 'To improve the quality of the training and education of skilled workers in the printing industry in Anhui Province and beyond by developing the print and media sectors, and to ensure, through the appropriate expansion of capacity, that training and education are aligned with demand.' The overall objective is being pursued through interventions in four areas: (1) the introduction of additional training programmes, (2) the re-alignment of existing training course content, (3) exchanges with German vocational colleges and other training institutions and (4) the involvement of, and cooperation with, the business sector. It was decided to build up a print technology education establishment, which was very much in its infancy in 1998, both from an institutional perspective and in terms of staff and organisation. Capacity was to be created or expanded rapidly and intensively - in the areas of teaching curriculum, facilities and equipment, administration, student numbers and student accommodation.

The project was not specifically directed toward <u>gender equality</u>, and did not embrace any gender-specific measures. There were no particular developmental objectives regarding the <u>environment</u>, and the issues of <u>democracy</u>, <u>good governance and human rights</u> were not reflected in either project content or objectives. However, the project aimed at an equable distribution of training opportunities and a high level of stakeholder participation. Of the eight Millennium Development Goals, only Target 1B, *'full and productive employment and decent work for all'*, is relevant here.

From 1998 on, through cooperation efforts, the CDAD was virtually "built from scratch". Lessons and training activities gradually developed along normal lines and, with German support, an increasing range of service delivery modes was created and expanded. These

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included: (1) deploying German technical and academic experts, and the professional development of teachers through advanced training in new technology; (2) cooperation with German technical colleges, vocational training institutes and university faculties for printing technology; (3) collaboration - gradually increasing in intensity - with the three leading German manufacturers of printing machines (KBA, Heidelberg and Manroland), in the form of internships and advanced training for skilled workers, the specification of new machines (specification documents for machines to be purchased) and site takeover activities; (4) the development of new training courses and (5) participating in the process of re-designing the organisational structure of the expanded CDAD.

By the time the project ended in December 2007, CDAD had developed into a vocational academy incorporating a production training school with competitive, modern plant. CDAD offered a broad range of basic and advanced technical training qualifications. A third of the teaching staff received initial or further training in Germany from GTZ. Trainees received instruction in a modernised plant facility which included highly sophisticated technology (very large machines). Following project completion, CDAD, on its own account, continued to expand the numbers of teachers and students, and is now well and truly established.

This development programme was assessed in accordance with the five criteria of the *Organisation for Economic Co-operation and Development - Development Assistance Committee* (OECD-DAC): relevance, effectiveness, developmental impact, efficiency and sustainability.

<u>Relevance</u> is rated as **good (rating: 2).** The development measure conforms to the needs of the partner country (the core problem). It correctly identified development trends in the Chinese printing industry at the start of the project, and tracked them consistently; and it can rely on support being readily available from the responsible public authorities in the PRC (the Provincial Government of Anhui). The provincial authorities continue to view CDAD, even after project completion, as highly relevant. The project fits with the Chinese national education policy and the associated five-year plan. The development measure continues to have relevance to poverty issues, by virtue of its focus on the poor rural area of Anhui, its promotion of employment and income generation, and the consideration given to female students in the range of study disciplines offered at CDAD. The poor integration of some phases of the project into the overall concept for German development cooperation (DC), and the lack of any synergistic effects achieved with other German or international donors has had a negative effect.

<u>Effectiveness</u> is rated as **satisfactory (rating: 3)**. The main reason for this somewhat cautious assessment is that, whilst recognising all the positive steps taken toward achieving Ex-post evaluation – CDAD, People's Republic of China – 2010 6



the overall objective, the quality of practical training is still unsatisfactory. In terms of its effectiveness, the project's strengths are the wide range of training qualifications now offered by CDAD, the substantial and continually increasing number of young people from Anhui achieving qualifications, and the official recognition given to those training qualifications. Training and qualification takes place in a "dual" vocational training academy - "dual" in the sense that it comprises both a technical college and a large number of cooperating concerns - which has seen continued expansion over the last five years.

Overarching developmental impact is rated as **good (rating: 2)**. The objective for developmental impact states: "Graduates of printing technology training courses find suitable work and adequate income, and employment in Anhui Province within this sector is rising. High-quality product enables participating printing companies to achieve increased turnover and improve their profitability and competitiveness." The majority of those trained at CDAD come from poor rural areas of Anhui Province. After successfully completing their training, they can be very confident of finding related employment within the industry in its key locations, at levels of income which are acceptable by Chinese standards. Staff qualified by CDAD - usually following a one-year or three-year course - help printers, publishers and manufacturing companies' turnover, profitability or competitiveness was available to the evaluation team. However, it is reasonable to assume that there were at least some positive developments, even if these cannot be expressed in numbers. The technical curricula are designed to consider environmental factors, and CDAD uses "environment-friendly production processes".

Efficiency is rated as **good (rating: 2)**. At 43% of total costs, the partner counterpart contribution toward financial establishment and development services was, by international standards, unusually high. Furthermore, in the years since project completion in 2007, CDAD has continued to invest in modernising its training facilities and equipment (printing laboratories, PC centres, and new apparatus). By using German personnel (with a suitable combination of skills) on a short-term basis, deploying a local project manager and training skilled personnel from CDAD partners in Germany, staff costs were kept reasonable from the outset. However, better coordination in the timing of vocational training support was needed with regard to the machines shipped from Germany. Towards the end of the project, delays in delivery created asynchronous effects on the plans for student instruction on these machines, causing the project budget to slip and become under-utilised. The result was to limit the efficiency of this development measure. The German printing presses supplied

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through FC under Phase 3 accounted for almost 35% of total project costs; however, this is justified under the efficiency criteria.

Sustainability is rated as very good (rating: 1). The positive effects that have been achieved will in all probability continue, and may even develop further. The prevailing financial and educational circumstances are remarkably favourable. As a recognised state education institution, CDAD can look to expand. This is subject to some conditions, but these are favourably influenced by the burgeoning demand for print and media products, and by the boom within the vocational training sector in the PRC. The result is an increased awareness of, and attention to, vocational training policy in China (from the Education Commission, and the Press and Publication Bureau). Demand for skilled workers in the printing industry remains strong, so a high proportion of CDAD graduates are guaranteed permanent employment. From an institutional perspective one of CDAD's advantages is its financial stability, with incomes from training fees growing, wages and salaries guaranteed by the state, and public subsidies available for investment purposes. In Anhui, CDAD cooperates closely with around 60 printing businesses and has looser ties with a further 200. It also cooperates with institutions within the sector in other provinces. CDAD has proven effective across a broad front, both in terms of industry training and in the narrower project context. Financial remedies are needed to combat staff shortages in administrative areas, but CDAD has a good prospect of recognition under the Chinese "Excellence Initiative" scheme by 2015.

In our <u>overall assessment</u> this development programme has been ranked as **good** (rating: 2).

The CDAD cooperation project is the only project in China over the last 12 years which GTZ and KfW have implemented together. Collaboration with the three German printing machinery manufacturers (KBA, Manroland and Heidelberg) also played a major part here. The synergies between KfW and GTZ in the joint phase of the project could serve as a model for development cooperation in China, and were highly significant to the progress made toward reaching the objectives. Approaches for an overarching concept of "DC from a single source", going beyond the complementarity of GTZ and KfW, emerged from time to time during the project, but ultimately no other instruments of German development cooperations - foreseen in sporadic "Round Table" discussions in Beijing - did not materialise. From its inception, the project was, in effect, exclusively geared to German DC, and CDAD is widely known as a "German project".



From the consultant's viewpoint there is limited scope for offering general recommendations, since the favourable background conditions that exist in the PRC are not available in, or transferable to, other countries. Primary factors in the success of CDAD include (1) the booming economy, especially in the printing industry; (2) the existing political and regulatory basis for vocational training; (3) the extent of business interest in cooperating with educational institutions; (4) the strength of support for CDAD from the Anhui Press and Publication Bureau and from the provincial Education Commission; and (5) the interest of German printing machinery manufacturers in becoming established in the Chinese market.

The following recommendations are primarily directed toward German DC actors (BMZ, GTZ and KfW) and, to a lesser extent, lead executing agencies and implementation partners on the ground - since, in the context of this particular ex-post evaluation, we have few recommendations for the project partners directly involved here.

This DC with China has now ended. After lengthy discussions, a "strategic alliance between the Chinese and German media industries" (a public-private partnership, or "PPP") - which was intended to create a new business and operating model for CDAD after project completion - failed in 2008/2009, due to a lack of agreement on the German side (i.e. between GTZ and the German manufacturing companies). Based on these events, we recommend to GTZ and KfW that: firstly, an appropriate exit strategy for ending project cooperation should be developed with the project partner in ample time; and secondly, steps be taken to ensure the partner can continue alone along the planned route as effectively as possible, without encouraging him in any false or unrealistic expectations.

There was marked success here, in the case of the CDAD, in identifying and recording the initial position regarding vocational training within the printing industry in the context of Chinese economic reforms. This provides a clear indication to all project partners - including German DC as well as implementation partners and lead executing agencies in the partner country - how important it is to capture the background economic conditions for vocational training initiatives and ensure the involvement of stakeholders at an early stage in the planning of new DC projects We recommend that a baseline study be compiled at the very start of a project, to provide a reference against which not only GTZ and KfW, but also implementation partners, can systematically monitor changing conditions.

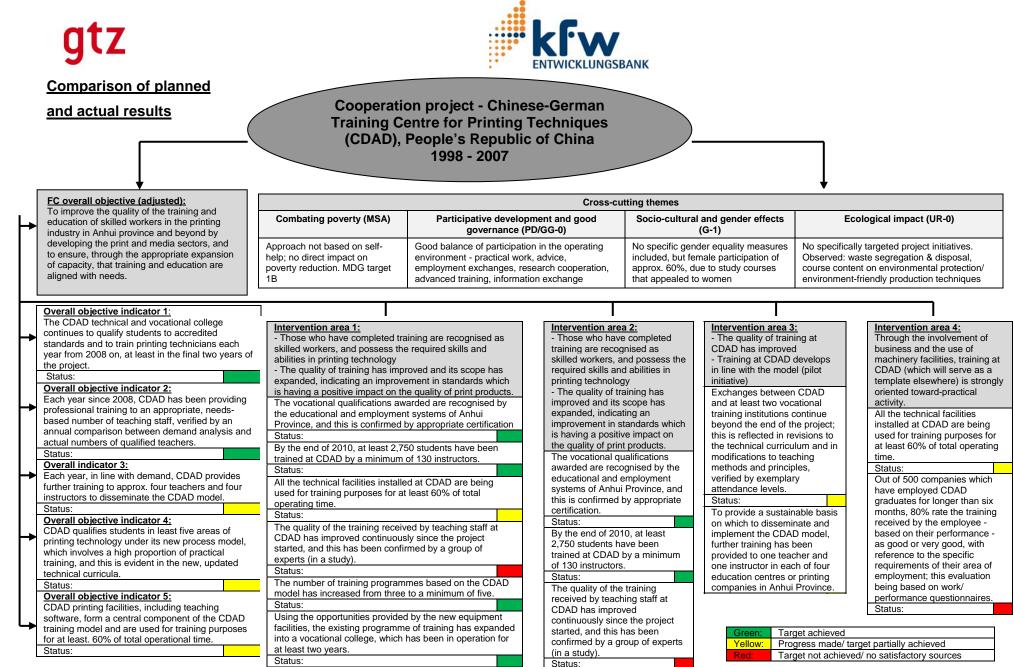
To expand on this point, we also recommend that GTZ and KfW establish a functioning M & E (monitoring & evaluation) system at the beginning of the project; this will provide all participants, actors and partners with a continuous plan v. actual comparison of the project's results and its progress toward its objectives, and will also facilitate adjustments to project design if required. The generally positive outcome of this development programme Ex-post evaluation – CDAD, People's Republic of China – 2010 9



demonstrates the importance of cooperative dialogue between project partners, in which the validity of the original conceptual approach is constantly under review, and which also permits changes in project direction on a case-by-case basis. Here we recommend that **BMZ** reacts flexibly to any conceptual restructuring or realignment that proves necessary.

At the same time, the CDAD project stands testament to the fact that expanding the project approach of a particular TC project by an FC component (which was not originally envisaged) can lead to a good overall result. In view of these experience, we recommend that **GTZ and KfW**, and, at a higher level, the **BMZ**, review the opportunities for synergies between TC and FC in particular project phases with greater frequency.

Finally, it proved highly beneficial that some sections of CDAD's technical and managerial staff were able to observe printing technology training in Germany at an early stage. CDAD was able to make good use of the knowledge gained in Germany in the planning training courses, development of specialist course content, curriculum planning, timetable preparation, etc.. We recommend to **German DC organisations** that, in the case of similar projects, technical training visits to Germany for knowledge transfer purposes should be included in project planning and arranged at an early stage.





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