



»»» TruBudget

Trusted Budget Expenditure

A blockchain-based workflow tool
for a transparent and collaborative
project implementation

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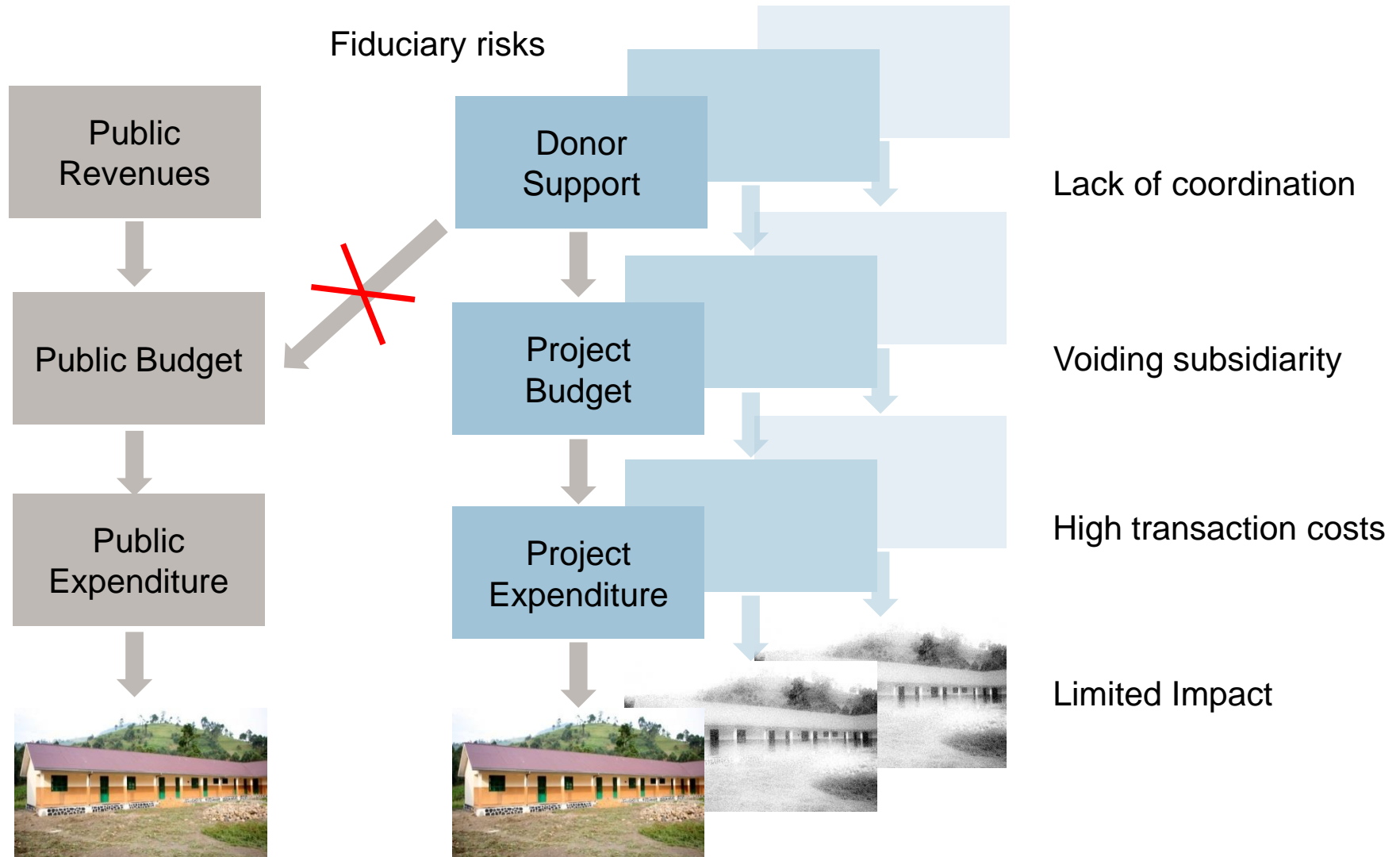
KFW

»» The challenge of donor harmonisation: example Ethiopia



Source: OECD 2017

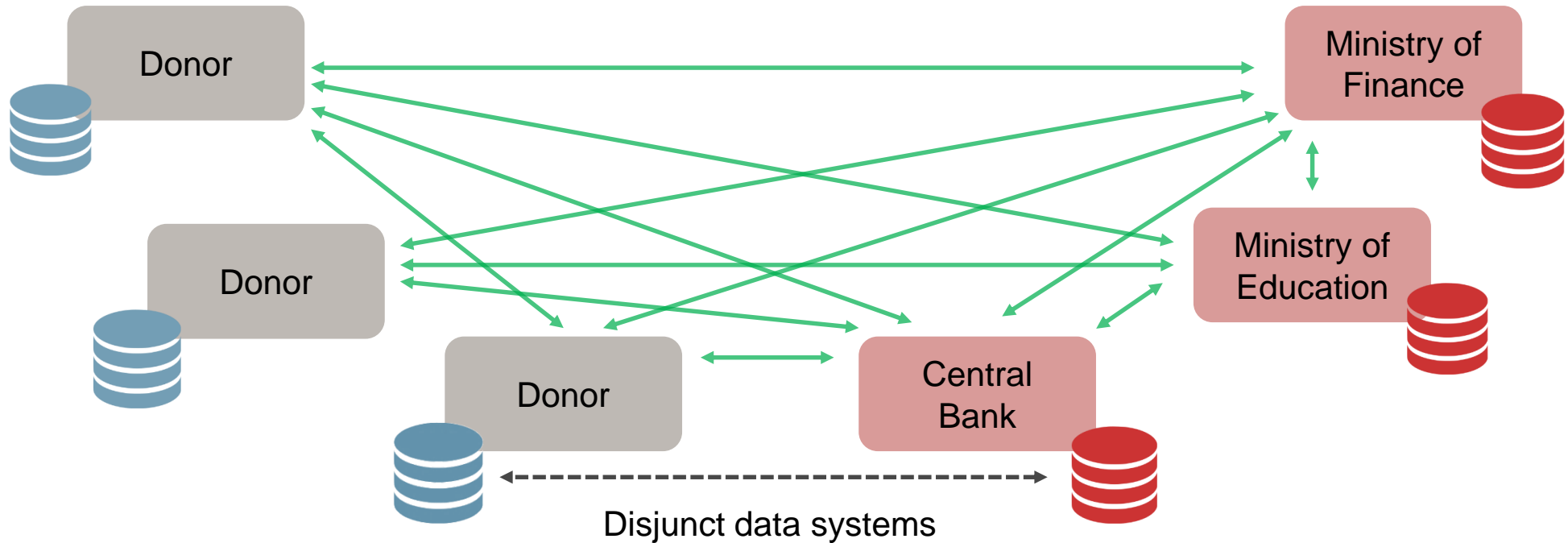
»» The challenge of partner systems



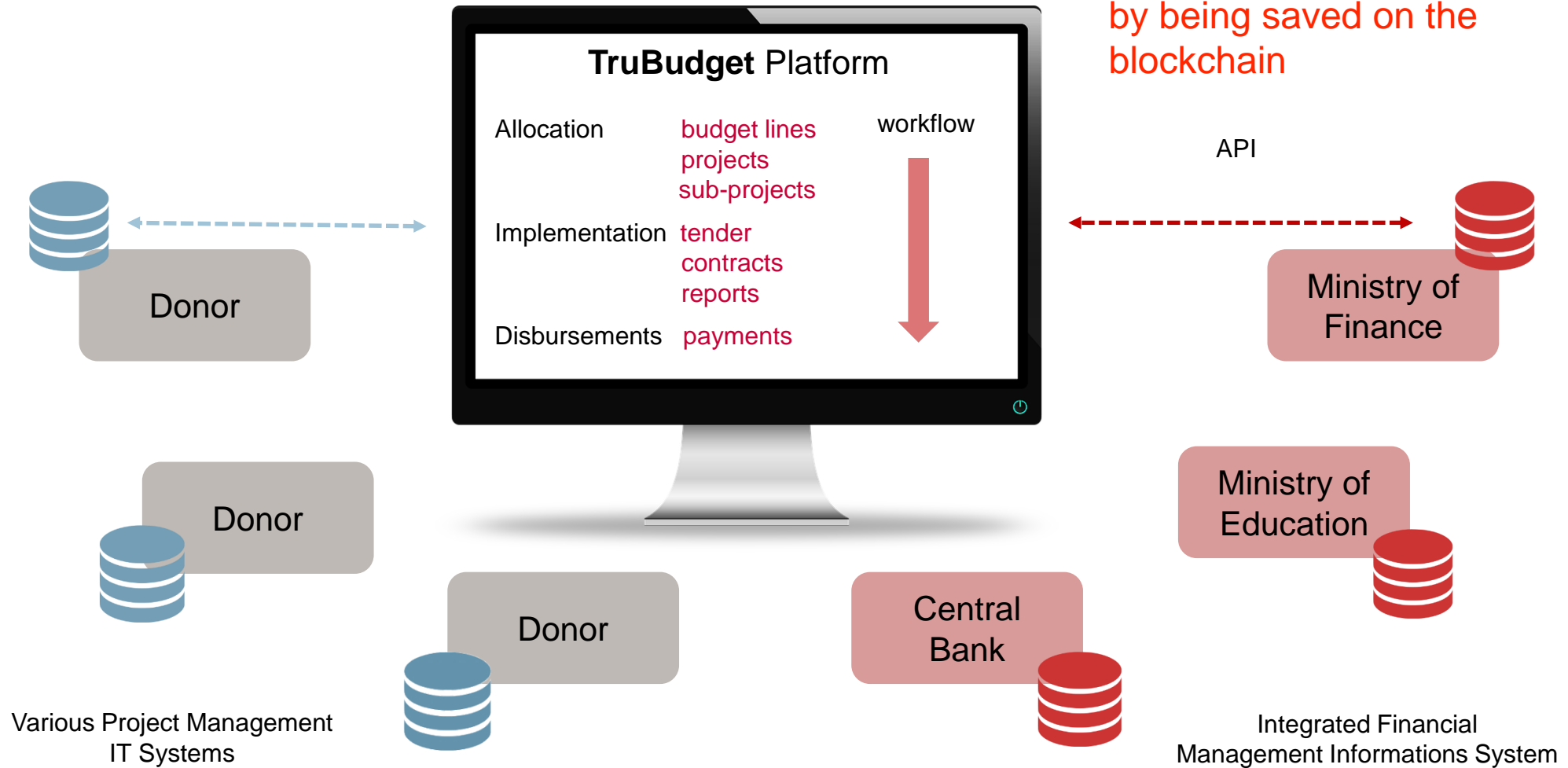
»» The challenge of communication and data



- **Unequal information level**
- Random and scattered filing
- Redundant structures
- Diverging data
- **No real-time data**



»» TruBudget: a joint platform of collaboration and expenditure control



»» Basic principle of the TruBudget platform:

Distributed

Access by
internet

Transparent

Tamperproofed

Open Source



»» Selected stakeholder with specific rights

The screenshot displays the TruBudget application interface within a web browser. The browser's address bar shows the URL <https://a-trubudget-app-v1-0-0-beta-1.do4.sixmarkets.net/projects>. The application's navigation bar includes a hamburger menu, the text 'TRUBUDGET (TEST)', and links for 'MAIN' and 'PROJECTS'. In the top right corner, there are user avatars and notification counts (9 and 3). The main content area features a project card for 'Primary School' with the following details:

- Primary School**
- Status: Open
- Budget: 30,000,000.00 €
- Created: Aug 28, 2018

A blue search icon is visible on the right side of the project card, and a lock icon is at the bottom right. The background of the application shows a large array of solar panels.

»» Easy to use, adaptable workflows

KFW TruBudget x Einstellungen x TruBudget, Presentation Groupware - Microsoft PowerPoint

← → ↺ ⌂ **Sicher** | <https://a-trubudget-app-v1-0-0-beta-1.do4.sixmarkets.net/projects/a3bafbdef459839c566ca6e4193a5eac/5f8afad49b2305189e980992d70d8bfa> 🔍 ⭐ ⋮

TRUBUDGET (TEST) MAIN > PROJECTS > PRIMAR...SCHOOL > CONSUL...VISION KFW 56 3

Consultancy supervision

No description

1,600,000.00 €
Budget

Open
Status ✓

Aug 28, 2018
Created

Abbas Tutelle
Assignee

Budget distribution

1,500,000.00 € Assigned	94%
500,000.00 € Disbursed	33%
1,500,000.00 € Projected	100%

Task status

Open Closed

3 5
Open ✓ Closed

Workflow items

	Workflow	Budget	Assignee	Actions
①	Budget allocation	N/A	Abbas Tutelle	✎ 🔒 ✓
①	Tender documents	N/A	Francis Tender	✎ 🔒 ✓
①	Tender evaluation	N/A	Francis Tender	✎ 🔒 ✓
①	Contract signature	1,500,000.00 € Assigned	Abbas Tutelle	✎ 🔒 ✓
①	Payment first installment	500,000.00 € Disbursed	Rose Finance	✎ 🔒 ✓
①	Payment interim installment	500,000.00 € Disbursed	Abbas Tutelle	✎ 🔒 ✓
①	Progress report	N/A	Abbas Tutelle	✎ 🔒 ✓
①	Payment final installment	500,000.00 € Disbursed	Abbas Tutelle	✎ 🔒 ✓

»» TruBudget assets for partner countries



to control the use of external funds



to channel donor funds through national budget



to get real-time information on use of donor funds



to improve budget planning and macro-economic analysis



to significantly reduce transaction costs

... while keeping your running IT-systems!

»» TruBudget assets for donors



to get real-time information on use of donor funds



to channel donor funds through partner country budgets without risk (→ Paris Declaration on Aid Effectiveness)



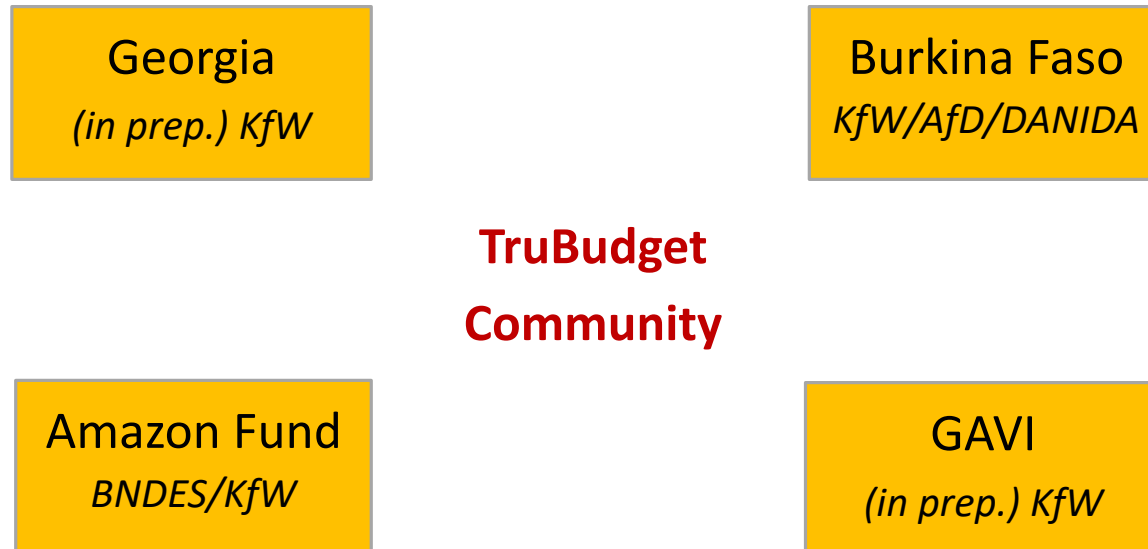
to improve communication and simplify decision-making



to significantly reduce transaction costs

»» TruBudget Piloting

1. Phase: Development of a tailor-made TruBudget platform for partner country
2. Phase: Piloting with real projects
3. Phase: Full integration as standard application



Thank You

»»» TruBudget
Trusted Budget
Expenditure

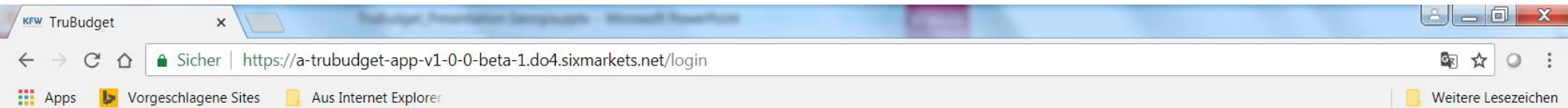
Check out our
Fact Sheet



Scan me

KFW

»» Log-in: Each member has specific rights




TruBudget


A blockchain-based solution for budget expenditure

Environment
Test ▾

Username




Password



English ▾

LOGIN

Developed by Emerging Technologies & Innovation @ Accenture



»» Projects: New projects only set by Ministry of Finance

The screenshot displays the TruBudget web application interface. The browser address bar shows the URL <https://a-trubudget-app-v1-0-0-beta-1.do4.sixmarkets.net/projects>. The application header includes a navigation menu with 'TRUBUDGET (TEST)', 'MAIN', and 'PROJECTS', and a user profile section with the name 'KFW' and notification counts (56 and 3). The main content area features a project card for 'Primary School' with the status 'Open'. The card displays a budget of 30,000,000.00 € and a creation date of Aug 28, 2018. A search icon is visible on the card, and a plus icon is shown on a semi-transparent overlay to the right.

KFW TruBudget

Sicher | <https://a-trubudget-app-v1-0-0-beta-1.do4.sixmarkets.net/projects>

Apps | Vorgeschlagene Sites | Aus Internet Explorer | Weitere Lesezeichen

TRUBUDGET (TEST) | MAIN | PROJECTS

KFW 56 3

Primary School
Status: Open

30,000,000.00 €
Budget

Aug 28, 2018
Created

»» Sub-projects: overview

KFW TruBudget

Einstellungen

Sicher | <https://a-trubudget-app-v1-0-0-beta-1.do4.sixmarkets.net/projects/a3bafbdef459839c566ca6e4193a5eac>

TRUBUDGET (TEST) MAIN > PROJECTS > PRIMAR...SCHOOL

KFW 56 3

Primary School
Projects in Burkina Faso 2018

30,000,000.00 €
Budget

Open
Status ✓

Aug 28, 2018
Created

☒ **Abbas Tutelle**
Assignee

Budget distribution

28,100,000.00 €
Assigned **94%**

1 of 5 done
Completion **20%**

Task status

Open Closed

4 **1**

Open Closed

Subprojects

Subproject	Budget	Status			
Design studies	500,000.00 €	Closed			
Consultancy supervision	1,600,000.00 €	Open			
Construction lot 1	15,000,000.00 €	Open			
Construction lot 2	8,000,000.00 €	Open			
Equipment	3,000,000.00 €	Open			

»» Closed sub-project

KFW TruBudget x Einstellungen x TruBudget_Presentation-Designs - Microsoft PowerPoint

Sicher | <https://a-trubudget-app-v1-0-0-beta-1.do4.sixmarkets.net/projects/a3bafbdef459839c566ca6e4193a5eac/d463b0c4402317189b6cff547cb50487>

TRUBUDGET (TEST) MAIN > PROJECTS > PRIMAR...SCHOOL > DESIGN...TUDIES

KFW 56 3

Design studies
No description

500,000.00 €
Budget

Closed
Status

Aug 28, 2018
Created

☒ Abbas Tutelle
Assignee

Budget distribution

500,000.00 € Assigned	100%
450,000.00 € Disbursed	90%
450,000.00 € Projected	90%

Task status

Open Closed

0 8
Open Closed

Workflow items

	Workflow	Budget	Assignee	Actions
✓	Budget allocation	N/A	✓ Abbas Tutelle	✎ 🔒 ✓
✓	Tender documents	N/A	✓ Francis Tender	✎ 🔒 ✓
✓	Tender evaluation	N/A	✓ Francis Tender	✎ 🔒 ✓
✓	Contract signature	500,000.00 € Assigned	✓ Abbas Tutelle	✎ 🔒 ✓
✓	Payment first installment	N/A	✓ Rose Finance	✎ 🔒 ✓
✓	Progress report	100,000.00 € Disbursed	✓ Paul Chantier	✎ 🔒 ✓
✓	Payment interim installment	100,000.00 € Disbursed	✓ Rose Finance	✎ 🔒 ✓
✓	Payment final installment	250,000.00 € Disbursed	✓ Rose Finance	✎ 🔒 ✓

»» Closed sub-project: full history

TruBudget

Einstellungen

←

→

↺

🏠

🔒 Sicher

https://a-trubudget-app-v1-0-0-beta-1.do4.sixmarkets.net/projects/a3baffbdef459839c566ca6e4193a5eac/d463b0c4402317189b6cff547cb50487

🔍

🌐

🌟

⋮

✓ Closed Status

📅 Aug 28, 2018 Created

👤 ☒ Abbas Tutelle Assignee

450,000.00 € Disbursed

450,000.00 € Projected

90%

90%

0 Open

8 Closed

History

👤 mstein closed subproject Design studies a month ago

👤 mstein closed workflowitem Payment final installment a month ago

👤 mstein granted permission "Revoke workflowitem permission" to atutelle on e a month ago

👤 mstein granted permission "Grant workflowitem permission" to atutelle on e a month ago

👤 mstein granted permission "Show workflowitem permissions" to atutelle on e a month ago

Workflow items

Workflow	Budget	Assignee	Actions
① Budget allocation	N/A	<input checked="" type="checkbox"/> Abbas Tutelle	✎ 🔒
① Tender documents	N/A	<input checked="" type="checkbox"/> Francis Tender	✎ 🔒
① Tender evaluation	N/A	<input checked="" type="checkbox"/> Francis Tender	✎ 🔒
① Contract signature	500,000.00 € Assigned	<input checked="" type="checkbox"/> Abbas Tutelle	✎ 🔒
① Payment first installment	N/A	<input checked="" type="checkbox"/> Rose Finance	✎ 🔒
① Progress report	100,000.00 € Disbursed	<input checked="" type="checkbox"/> Paul Chantier	✎ 🔒
① Payment interim installment	100,000.00 € Disbursed	<input checked="" type="checkbox"/> Rose Finance	✎ 🔒
① Payment final installment	250,000.00 € Disbursed	<input checked="" type="checkbox"/> Rose Finance	✎ 🔒

»» Workflows: assign person for approval

KFW TruBudget x Einstellungen x TruBudget Presentation Groupware - Microsoft PowerPoint

Sicher | <https://a-trubudget-app-v1-0-0-beta-1.do4.sixmarkets.net/projects/a3bafbdef459839c566ca6e4193a5eac/5f8afad49b2305189e980992d70d8bfa>

TRUBUDGET (TEST) MAIN > PROJECTS > PRIMAR...SCHOOL > CONSUL...VISION KFW 56 3

Consultancy supervision
No description

1,600,000.00 €
Budget

Open
Status ✓

Aug 28, 2018
Created

Abbas Tutelle
Assignee

Budget distribution

1,500,000.00 € Assigned	94%
500,000.00 € Disbursed	33%
1,500,000.00 € Projected	100%

Task status

Open Closed

3 Open 5 Closed ✓

Workflow items

	Workflow	Budget	Assignee	Actions
①	Budget allocation	N/A	Abbas Tutelle	✎ 🔒 ✓
①	Tender documents	N/A	Francis Tender	✎ 🔒 ✓
①	Tender evaluation	N/A	Francis Tender	✎ 🔒 ✓
①	Contract signature	1,500,000.00 € Assigned	Abbas Tutelle	✎ 🔒 ✓
①	Payment first installment	500,000.00 € Disbursed	Rose Finance	✎ 🔒 ✓
①	Payment interim installment	500,000.00 € Disbursed	Abbas Tutelle	✎ 🔒 ✓
①	Progress report	N/A	Abbas Tutelle	✎ 🔒 ✓
①	Payment final installment	500,000.00 € Disbursed	Abbas Tutelle	✎ 🔒 ✓

KFW

[illegible]

»» Assigned person gets notification

The screenshot shows a web browser window with the URL <https://a-trubudget-app-v1-0-0-beta-1.do4.sixmarkets.net/projects>. The browser tabs include 'KFW TruBudget' and 'Einstellungen'. The application header features a navigation bar with 'TRUBUDGET (TEST)', 'MAIN', and 'PROJECTS'. In the top right corner, there is a notification icon (speech bubble) with a red badge showing the number '9', and a user profile icon with a blue badge showing the number '3'. A red circle highlights these two icons. The main content area displays a project card for 'Primary School' with the status 'Open'. The card includes a budget of 30,000,000.00 € and a creation date of Aug 28, 2018. A magnifying glass icon is visible on the card, and a plus sign icon is on the background image.

KFW TruBudget

Einstellungen

Sicher | <https://a-trubudget-app-v1-0-0-beta-1.do4.sixmarkets.net/projects>

TRUBUDGET (TEST) MAIN > PROJECTS

KFW 9 3

Primary School
Status: Open

30,000,000.00
€
Budget

Aug 28, 2018
Created

»» Notification list



















KFW TruBudget x Einstellungen x

Sicher | <https://a-trubudget-app-v1-0-0-beta-1.do4.sixmarkets.net/notifications>

TRUBUDGET (TEST) MAIN > NOTIFI...ATIONS

KFW 9 3

Notifications

	Primary School Consultancy supervision	Workflowitem Payment interim installment was assigned to you	atutelle 2 minutes ago	
	Primary School Consultancy supervision	Workflowitem Payment first installment was closed	mstein a month ago	
	Primary School Consultancy supervision	Workflowitem Payment first installment was updated	mstein a month ago	
	Primary School Design studies	Workflowitem Payment final installment was closed	mstein a month ago	
	Primary School Design studies	Workflowitem Payment final installment was updated	mstein a month ago	
	Primary School Design studies	Workflowitem Payment interim installment was closed	mstein a month ago	
	Primary School Design studies	Workflowitem Payment interim installment was updated	mstein a month ago	
	Primary School Design studies	Workflowitem Payment first installment was closed	mstein a month ago	
	Primary School Design studies	Workflowitem Payment first installment was updated	mstein a month ago	

>>> My action...

KFW TruBudget x Einstellungen x

Sicher | <https://a-trubudget-app-v1-0-0-beta-1.do4.sixmarkets.net/projects/a3bafbdef459839c566ca6e4193a5eac/5f8afad49b2305189e980992d70d8bfa>

TRUBUDGET (TEST) MAIN > PROJECTS > PRIMAR...SCHOOL > CONSUL...VISION

KFW 8 3

Consultancy supervision

No description

1,600,000.00 €
Budget

Open
Status ✓

Aug 28, 2018
Created

Abbas Tutelle
Assignee

Budget distribution

1,500,000.00 € Assigned	94%
500,000.00 € Disbursed	33%
1,500,000.00 € Projected	100%

Task status

Open Closed

3 Open 5 Closed

Workflow items

Workflow	Budget	Assignee	Actions
Budget allocation	N/A	Abbas Tutelle	✎ 🔒 ✓
Tender documents	N/A	Francis Tender	✎ 🔒 ✓
Tender evaluation	N/A	Francis Tender	✎ 🔒 ✓
Contract signature	1,500,000.00 € Assigned	Abbas Tutelle	✎ 🔒 ✓
Payment first installment	500,000.00 € Disbursed	Rose Finance	✎ 🔒 ✓
Payment interim installment	500,000.00 € Disbursed	Rose Finance	✎ 🔒 ✓
Progress report	N/A	Abbas Tutelle	✎ 🔒 ✓
Payment final installment	500,000.00 € Disbursed	Abbas Tutelle	✎ 🔒 ✓

»» Payment approved.

KFW TruBudget x Einstellungen x

← → ↺ ⌂ **Sicher** | <https://a-trubudget-app-v1-0-0-beta-1.do4.sixmarkets.net/projects/a3bafbdef459839c566ca6e4193a5eac/5f8afad49b2305189e980992d70d8bfa> 🔍 ⭐ ⚙

≡ **TRUBUDGET (TEST)** MAIN > PROJECTS > PRIMAR...SCHOOL > CONSUL...VISION KFW 8 3

Consultancy supervision
No description

1,600,000.00 €
Budget

Open
Status ✓

Aug 28, 2018
Created

☒ **Abbas Tutelle**
Assignee

Budget distribution

+	1,500,000.00 € Assigned	94%
-	1,000,000.00 € Disbursed	67%
⌋	1,500,000.00 € Projected	100%

Task status

Open Closed

2 Open 6 Closed

Workflow items

CE	Workflow	Budget	Assignee	Actions
✓	① Budget allocation	N/A	✓ Abbas Tutelle	✎ 🔒 ✓
✓	① Tender documents	N/A	✓ Francis Tender	✎ 🔒 ✓
✓	① Tender evaluation	N/A	✓ Francis Tender	✎ 🔒 ✓
✓	① Contract signature	1,500,000.00 € Assigned	✓ Abbas Tutelle	✎ 🔒 ✓
✓	① Payment first installment	500,000.00 € Disbursed	✓ Rose Finance	✎ 🔒 ✓
✓	① Payment interim installment	500,000.00 € Disbursed	✓ Rose Finance	✎ 🔒 ✓
✓	① Progress report	N/A	✓ Abbas Tutelle	✎ 🔒 ✓
✓	① Payment final installment	500,000.00 € Disbursed	✓ Abbas Tutelle	✎ 🔒 ✓

KFW

KFW TruBudget

Einstellungen

Sicher | https://a-trubudget-app-v1-0-0-beta-1.do4.sixmarkets.net/projects/a3bafbdef459839c566ca6e4193a5eac/5f8afad49b2305189e980992d70d8bfa

TRUBUDGET (TEST) MAIN > PROJECTS > PRIMAR...SCHOOL > CONSUL...VISION

C Consultancy supervision
No description

1,600,000.00 €
Budget

Open
Status ✓

Aug 28, 2018
Created

Abbas Tutelle
Assignee

Budget distribution

+ 1,500,000.00 €
Assigned 94%

- 1,000,000.00 €
Disbursed 67%

1,500,000.00 €
Projected 100%

Task status

Open Closed

2 6

Open Closed

History

rfinance closed workflowitem Payment interim installment a minute ago

atutelle assigned workflowitem Payment interim installment to rfinance 7 minutes ago

WorkflowItem changed by mstein: description to a month ago

mstein created workflowitem Payment final installment a month ago

WorkflowItem changed by mstein: description to a month ago

mstein created workflowitem Progress report

Workflow items

	Workflow	Budget	Assignee	Actions
✓	① Budget allocation	N/A	✓ Abbas Tutelle	✎ 🔒
✓	① Tender documents	N/A	✓ Francis Tender	✎ 🔒
✓	① Tender evaluation	N/A	✓ Francis Tender	✎ 🔒
✓	① Contract signature	1,500,000.00 € Assigned	✓ Abbas Tutelle	✎ 🔒
✓	① Payment first installment	500,000.00 € Disbursed	✓ Rose Finance	✎ 🔒

»» Flexible workflow management: create, change, adapt

KFW TruBudget x Einstellungen x

← → ↻ ⌂ **Sicher** | <https://a-trubudget-app-v1-0-0-beta-1.do4.sixmarkets.net/projects/a3bafbdef459839c566ca6e4193a5eac/e531b66ef2b20249d0eca6ea214eedaf> 🔍 ⭐ ⌵

☰ **TRUBUDGET (TEST)** MAIN > PROJECTS > PRIMAR...SCHOOL > CONSTR... LOT 1 KFW 🗨 3 🔌

Construction lot 1
No description

🏠 **15,000,000.00 €**
Budget

— **Open**
Status ✓

📅 **Aug 28, 2018**
Created

👤 ☒ **Abbas Tutelle** ▾
Assignee

Budget distribution

➕ 15,000,000.00 € Assigned	100%
➖ 0.00 € Disbursed	0%
📊 15,000,000.00 € Projected	100%

Task status

6 Open 2 Closed

Workflow items

☰	Workflow	Budget	Assignee	Actions
✓	Budget allocation	N/A	☑ Abbas Tutelle ▾	✎ 🔒 ✓
①	Tender documents	N/A	☑ Francis Tender ▾	✎ 🔒 ✓
①	Tender evaluation	N/A	☑ Abbas Tutelle ▾	✎ 🔒 ✓
①	Contract signature	15,000,000.00 € Assigned	☑ Abbas Tutelle ▾	✎ 🔒 ✓
①	Payment first installment	5,000,000.00 € Disbursed	☑ Abbas Tutelle ▾	✎ 🔒 ✓
①	Progress report	5,000,000.00 € Disbursed	☑ Abbas Tutelle ▾	✎ 🔒 ✓
①	Payment final installment	5,000,000.00 € Disbursed	☑ Abbas Tutelle ▾	✎ 🔒 ✓
①	Completion subproject	N/A	☑ Abbas Tutelle ▾	✎ 🔒 ✓

»» Create a workflow

KFW TruBudget

Einstellungen

Sicher | https://a-trubudget-app-v1-0-0-beta-1.do4.sixmarkets.net/projects/a3bafbdef459839c566ca6e4193a5eac/e531b66ef2b20249d0eca6ea214eedaf

Budget

Open Status

Aug 28, 2018 Created

Abbas Tutelle Assignee

Assigned

0.00 € Disbursed

15,000,000.00 € Projected

0%

100%

6 Open

2 Closed

Create Workflow item

1 Name 2 Documents

Workflow title

Re-Tender

Workflow Comment

new documents

Name of the workflow

Add some comments

☒ Not applicable ☐ allocated ☐ disbursed

CANCEL BACK NEXT SUBMIT

Workflow items

	Workflow
✓	Budget allocation
✓	Tender documents
-	Tender evaluation
-	Contract signature
-	Payment first installment
-	Progress report
-	Payment final installment

Actions

»» Add a document....

KfW TruBudget

Einstellungen

Sicher | <https://a-trubudget-app-v1-0-0-beta-1.do4.sixmarkets.net/projects/a3bafbdef459839c566c>

15,000,000.00 €

Budget

Open

Status

Aug 28, 2018

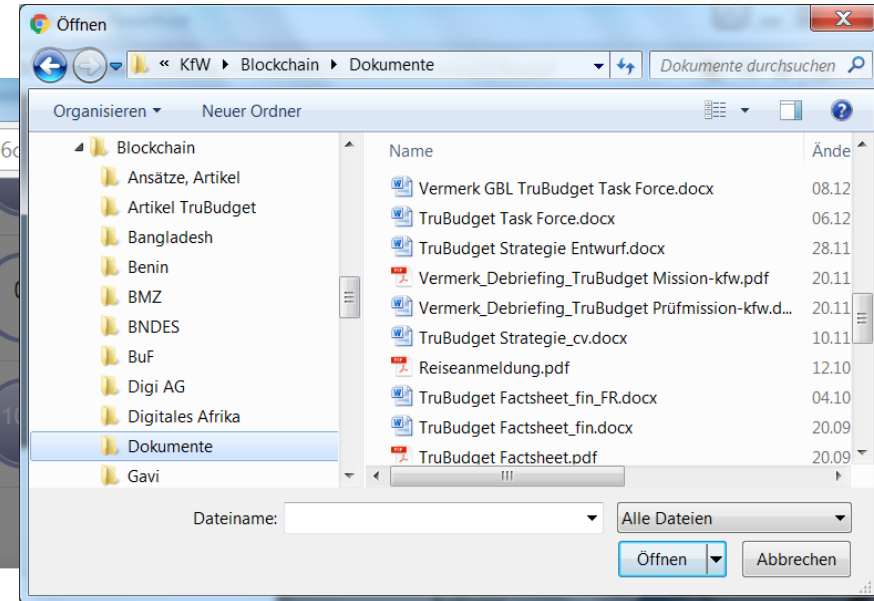
Created

15,000,000.00 €

Projected

Abbas Tutelle

Assignee



Create Workflow item

✓ Name Documents

No documents

Document Name

New Tender Doc

UPLOAD

Add name of document

CANCEL BACK NEXT SUBMIT

Workflow items

Workflow

Budget allocation

Tender documents

Tender evaluation

Contract signature

Payment first installment

Progress report

Payment final installment

N/A

15,000,000.00 € Assigned

5,000,000.00 € Disbursed

5,000,000.00 € Disbursed

5,000,000.00 € Disbursed

Abbas Tutelle

Abbas Tutelle

Abbas Tutelle

Abbas Tutelle

Abbas Tutelle

Actions

KFW

The screenshot displays the TruBudget application interface. The top navigation bar includes the KfW logo, the application name 'TruBudget', and a language selector set to 'Einstellungen'. The main content area is divided into several sections:

- Project Details:** Shows 'Construction lot 1' with 'No description'. The budget is '15,000,000.00 €'. The status is 'Open'. The creation date is 'Aug 28, 2018'. The assignee is 'Abbas Tutelle'.
- Budget distribution:** A table showing the breakdown of the budget:

Category	Amount	Percentage
Assigned	15,000,000.00 €	100%
Disbursed	0.00 €	0%
Projected	15,000,000.00 €	100%
- Task status:** A donut chart showing the status of tasks. The chart is divided into 'Open' (7 tasks) and 'Closed' (2 tasks) categories.
- Workflow items:** A table listing the workflow steps for the project. The 'Re-Tender' step is highlighted with a red box.

Workflow	Budget	Assignee	Actions
Budget allocation	N/A	Abbas Tutelle	✎ 🔒 ✓
Tender documents	N/A	Francis Tender	✎ 🔒 ✓
Re-Tender	N/A	Mauro Stein	✎ 🔒 ✓
Tender evaluation	N/A	Abbas Tutelle	✎ 🔒 ✓
Contract signature	15,000,000.00 € Assigned	Abbas Tutelle	✎ 🔒 ✓
Payment first installment	5,000,000.00 € Disbursed	Abbas Tutelle	✎ 🔒 ✓
Progress report	5,000,000.00 € Disbursed	Abbas Tutelle	✎ 🔒 ✓
Payment final installment	5,000,000.00 € Disbursed	Abbas Tutelle	✎ 🔒 ✓
Completion subproject	N/A	Abbas Tutelle	✎ 🔒 ✓

What is Blockchain about?



»» Blockchain features: simple but groundbreaking

Blockchain technology...

.. solves the trust question in the digital world

.. enables secure and traceable decisions

.. is a distributed tamper-proofed data system

