

AGRIGRID

Methodological grids for payment calculations in rural development measures in the EU

Development of the AGRIGRID software tool

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Overview

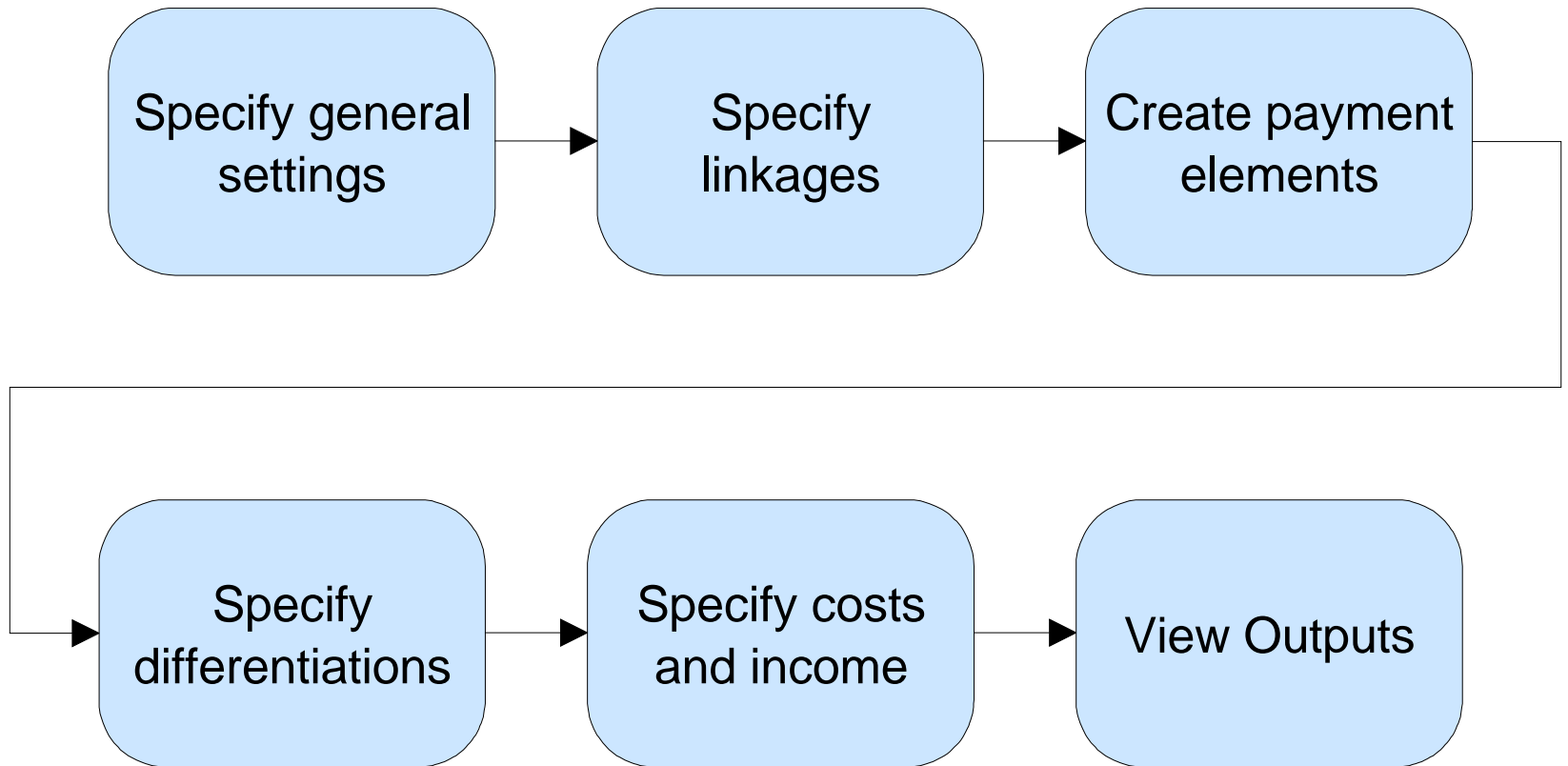
- Purpose of the Software
- Overview of the Process
- Discussion of Key Concepts
- Example Outputs

Purpose of the Software

The purpose of the software is to:

- Provide a flexible & harmonised method for the preparation of payment grids
- Guide the user through process of creating a “grid”
- Provide a library of baseline regulations
- Provide a library of differentiations

Overview of the Process



General Grid Settings

Set the RD Measure

Set the Sub-measure

AGRIGRID - General Grid Settings ? _ X

Rural Development measure: 214 - Agri-environment payments

Description of sub-measure: Conversion to organic farming

Country that Grid applies to: Italy Region: Veneto

Description of this Grid

This box should be used to provide assistance in the understanding of the Grid, such as how the selected member-state calculates the payment.

Next > Save

Describe the grid

Specify the country and/or region

Practices & Baseline

The screenshot shows the 'AGRIGRID - Practice' dialog box with the following fields and controls:

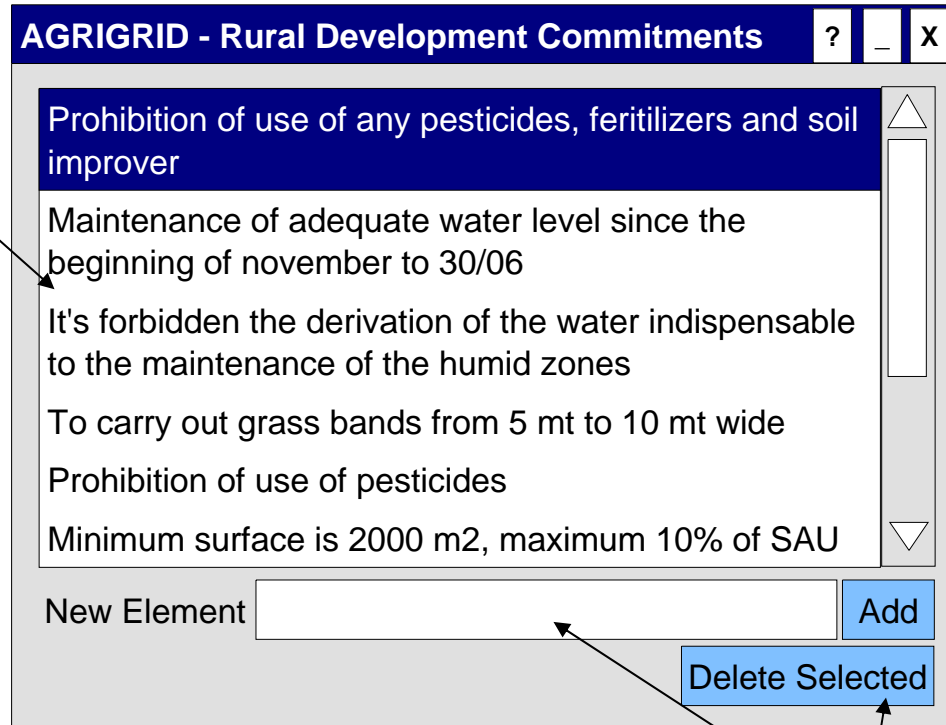
- Description of Practice:** A text box containing 'Prohibition of use of some types of pesticides.'
- Type of Practice:** A dropdown menu set to 'Regulation'.
- Notes:** A text box containing 'Practice refers to four baseline regulations, see below.'
- Baselines for this Practice:** A list box containing:
 - GAEC 4.1: Protection of permanent pastures
 - SMR B9: Council Directive 91/414/EEC of 15 July 1991 concerning the placing of plant protection products on the market
 - SMR A3: Council Directive 86/278/EEC of 12 June 1986 on the protection of the environment, and in
- Baseline:** A dropdown menu set to 'SMR A4 - Council Directive 91/676/'.
- Buttons:** 'Add', 'New', 'Open', and 'Save Practice'.

Annotations with arrows point to the following elements:

- 'Describe the practice' points to the 'Description of Practice' text box.
- 'Specify whether the practice is common or regulatory (i.e. baseline)' points to the 'Type of Practice' dropdown menu.
- 'Add some notes if necessary' points to the 'Notes' text box.
- 'For regulatory practices select the baselines that apply' points to the 'Baselines for this Practice' list box and the 'Add' button.

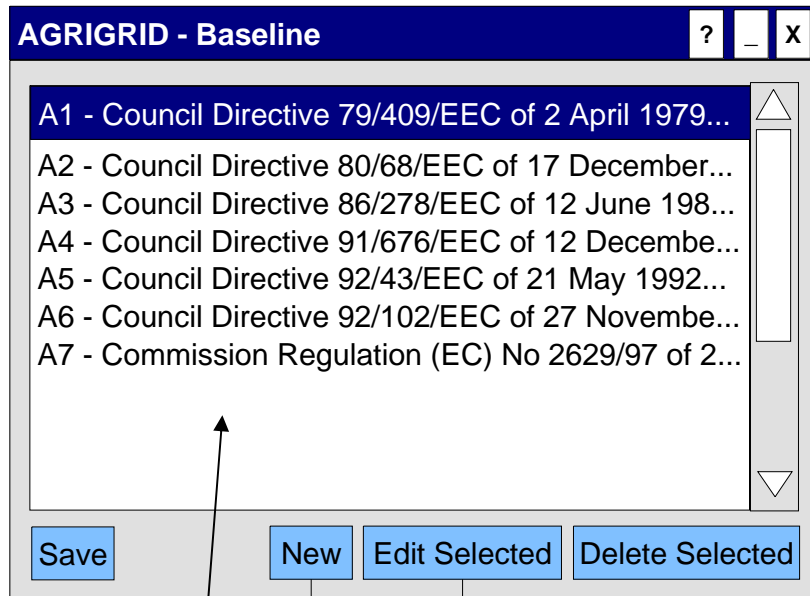
RD Commitments

The RD Commitments that apply to this grid



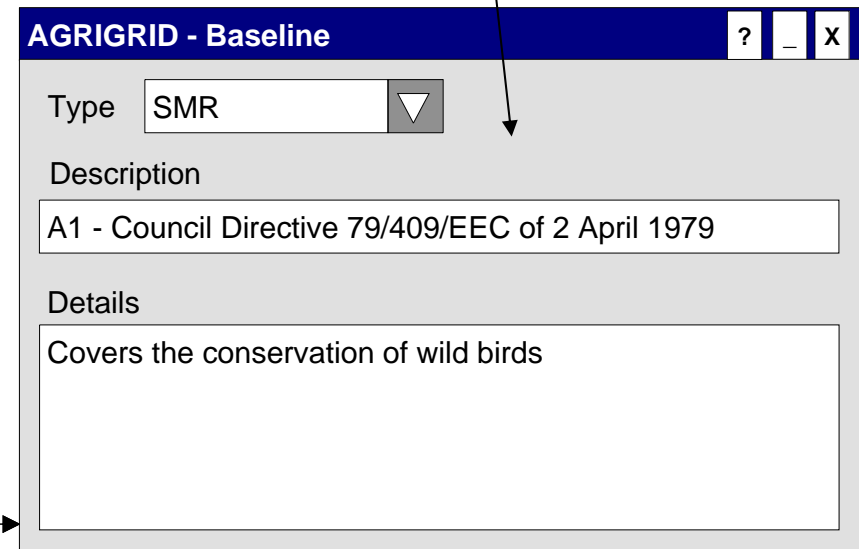
Controls for adding and deleting RD Commitments

Data Libraries



List of baselines contained within the library

Details of the selected baseline



Linkages

AGRIGRID - Linkage

<u>RD Commitment</u>	<u>Practice</u>	<u>Income</u>	<u>Costs</u>
Minimum surface is 2000 m2, maximum 10% of SAU. No more than 2 hectares	1 mowing/year mandatory if there's no grazing		SE350-contract work
Prohibition of use of any pesticides, fertilisers and soil improvers	Prohibition of use of some types of pesticide	SE195-Forage Crops (K147)	SE195-Fertiliser
Spring sowing of crop that must stay until 15/3 of the next year	Maintenance of surfaces ritired by the production to...		SE281-Total Specific cost SE336-Total farm overheads
Prohibition of use of pesticides	Maintenance of surfaces ritired by the production to...		SE281-Total Specific cost SE336-Total farm overheads

New Linkage Delete Selected Linkage

Details of Selected Linkage

RD Commitment: Prohibition of use of any pesticides, fertilisers and soil improvers

Practice: Prohibition of use of some types of pesticide

Income	Costs
SE195-Forage Crops (K147)	SE195-Fertiliser
<input type="button" value="Delete Selected"/>	<input type="button" value="Delete Selected"/>
<input type="text"/> <input type="button" value="Add"/>	<input type="text"/> <input type="button" value="Add"/>

< Back Next > Save Edit Pick-lists: RD Commitment Income Cost

List of linkages

Define new linkages

Cost & Income Components

AGRIGRID - Cost Components ? _ X

SE-285 Seeds and Plants
SE-295 Fertilisers
SE-300 Crop Protection
SE-305 Other Crop Specific Costs
SE-310 Feed for Grazing Livestock

Description SE-285 Seeds and Plants Add
FADN Code SE-285 Delete Selected

AGRIGRID - Income Components ? _ X

SE-140 Cereals
SE-145 Protein Crops
SE-146 Energy Crops

Description SE-140 Cereals Add
FADN Code SE-140 Delete Selected

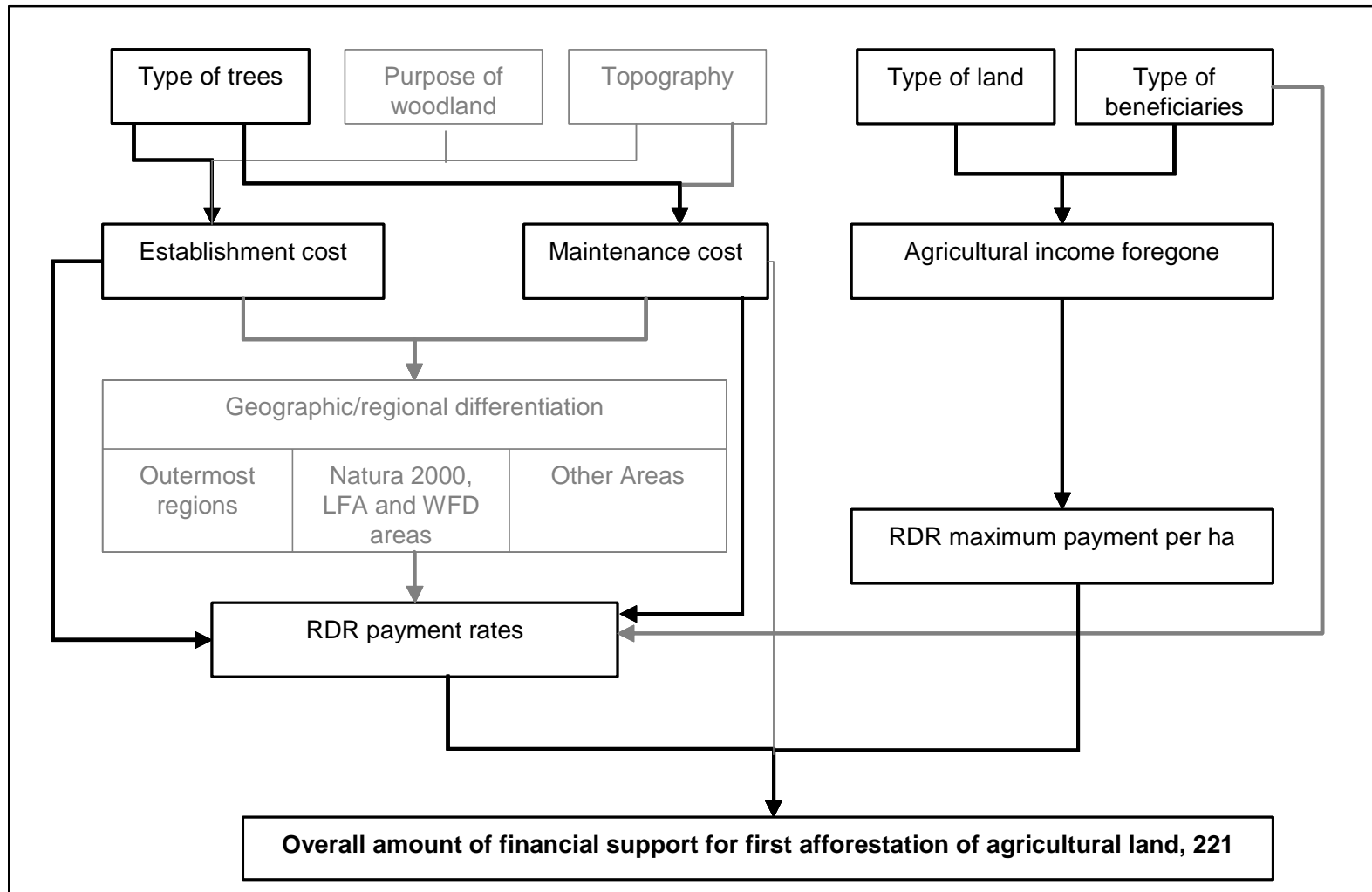
Pre-populated lists of cost & income components

User can add or remove components from the list if necessary

Payment Elements & Sub-Grids

Differentiations →

Payment elements →



Source: AGRIGRID questionnaires

Differentiation

Categories

AGRIGRID - Differentiation Categories ? _ X

Land Use/Animal Species
Crop/Variety/Breed
Intensity of Farming
Type of Trees/Woodland
Admin/Territory/Regional
Specific Land/Animal
Socio-economic

Save New Edit Selected Delete Selected

AGRIGRID - Differentiation Category ? _ X

Category

Elements of this Differentiation Category

Conifer
Broadleaves
Mixed Conifer/Broadleaves
Native Woodland
Riparian Forests
Short Rotation Coppice
Bushes

Delete Selected

New Element Add

Elements within a category

Specifying Values

Decide which components to include in this part of the calculation

AGRIGRID - Sub-GRID Configuration [?] [-] [X]

Description:

RDR Payment Limits

Transaction Costs

Cost/Income Components

SE-295 Fertilisers

SE-300 Crop Protection

Unassigned Cost/Income Components

SE-305 Other Crop Spec...

SE-310 Feed for Grazing...

Differentiations

Default

Arable Land + Organic + Small

Arable Land + Organic + Medium

Arable Land + Organic + Large

Arable Land + Non-organic + Small

Arable Land + Non-organic + Medium

Arable Land + Non-organic + Large

Vegetables + Organic + Small

Vegetables + Organic + Large

Vegetables + Non-organic + Small

Vegetables + Non-organic + Medium

Vegetables + Non-organic + Large

Cost/Income Components for Selected Differentiation

	Baseline	RD Com	Diff
SE-295 Fertilisers	<input type="text"/>	<input type="text"/>	-10.00
SE-300 Crop Protec	-30.50	-50.05	19.55

All combinations of selected differentiation

Enter figures here

Specifying Values & Using Sub-masks

AGRIGRID - Cost/Income Component [?] [-] [X]

Type: Cost Component

Description: SE-300 Crop Protection

Differentiation: Arable Land - Non-organic - Small

FADN Code:

Notes: The avg area in RDC submask is estimated.

	Value	Data Source	Sub-mask
Baseline	<input type="text" value="-30.50"/>	<input type="text" value="FADN"/>	<input type="button" value="Edit"/>
RD Commitment	<input type="text" value="-50.05"/>	<input type="text" value="Farm Handbk"/>	<input type="button" value="Edit"/>
Additional Commitment	<input type="text" value="19.55"/>		

Information about the component

Sub-mask definition

AGRIGRID - Sub-mask [?] [-] [X]

A = Labour (hr) = 143.00
B = Wage (EUR/Hr) = -10.50
C = Avg Area (Ha) = 30.00

Cost = (A * B) / C

=>

=>

Software calculates the additional commitment

Specify baseline and RD Commitment values

Sub-mask formula

Representation of Values I

	Baseline	Commitment	Considering the Absolute values	Items of the RD payment calculation	(Baseline - Commitment)
Income/ Subsidies (Positive)	€ 100	€ 80	"Baseline Income" is greater than "Commitment Income" so Income Loss is Positive for RDP	Income Loss	€ 20
	+	+			+
Costs (Negative)	- € 50	- € 75	"Baseline Cost" is less than "Commitment cost" so Additional Cost Positive for RDP	Additional cost	€ 25
	=	=			=
Net Income	50	5		Payment	€ 45

Representation of Values II

	Baseline	Commitment	Considering the Absolute values	Items of the RD payment calculation	(Baseline - Commitment)
Income/ Subsidies (Positive)	€ 100	€ 110	"Baseline Income" is less than "Commitment Income" so Income Loss is Negative for RDP	Income Loss	- € 10
	+	+			+
Costs (Negative)	- € 50	- € 75	"Baseline Cost" is less than "Commitment cost" so Additional Cost Positive for RDP	Additional cost	€ 25
	=	=			=
Net Income	50	35		Payment	€ 15

Representation of Values III

	Baseline	Commitment	Considering the Absolute values	Items of the RD payment calculation	(Baseline - Commitment)
Income/ Subsidies (Positive)	€ 100	€ 50	"Baseline Income" is greater than "Commitment Income" so Income Loss is Positive for RDP	Income Loss	€ 50
	+	+			+
Costs (Negative)	- € 50	- € 30	"Baseline Cost" is greater than "Commitment cost" so Additional Cost Negative for RDP	Additional cost	- € 20
	=	=			=
Net Income	50	20		Payment	€ 30

Summary Calculation

AGRIGRID - Summary Calculation [?] [-] [X]

Differentiations

Farm Size: ▼
 Farm Type: ▼

Summary GRID for Selected Differentiation

Differentiations
 Income Foregone: Small
 Additional Costs: Non-organic

<u>Income Foregone</u>	<u>Baseline</u>	<u>RD Comm</u>	<u>Diff</u>
SE140-Cereals	2048.00	1851.00	197.00
Total			197.00

<u>Additional Costs</u>	<u>Baseline</u>	<u>RD Comm</u>	<u>Diff</u>
SE295-Fertilisers	181.70	154.50	27.20
SE350-Contract Work	838.30	863.50	-25.20
Total			2.00

Net Income: 199.00

Transaction Cost 1: 10.00
 Transaction Cost 2 (5% of 199.00): 9.95

Net Income + Transaction Costs: 218.95
 RDR Rate: 0.80

Overall Financial Support: 175.16

Options

Mode: ▼

RDR Payment Limits:

Transaction Costs:

Differentiation
(select one from each)

View of calculation

Set RDR payment rate, min, max

Specify transaction costs

Summary Grid

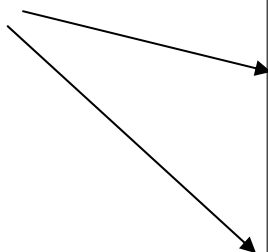
AGRIGRID - Summary GRID				
	Cal c1	Cal c2	Cal c3	Cal c4
<u>Income Foregone</u>				
SE140-Cereals	100.00	197.00	200.00	35.00
Total	100.00	197.00	200.00	35.00

<u>Additional Costs</u>				
SE295-Fertilisers	20.00	27.20	50.00	30.00
SE350-Contract Work	0.00	-25.20	30.00	-40.00
Total	20.00	2.00	80.00	-10.00

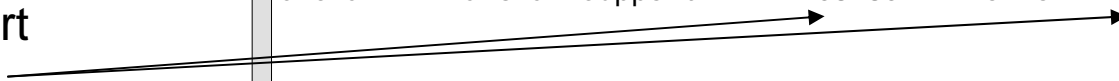
Net Income	120.00	199.00	280.00	25.00
Transaction Cost 1	10.00	10.00	10.00	10.00
Transaction Cost 2	6.00	9.95	14.00	1.25
Net Income + Trans Costs	136.00	218.95	304.00	36.25

RDR Rate	0.80	0.80	0.80	0.80
RDR Maximum	200.00	200.00	200.00	200.00
RDR Minimum	50.00	50.00	50.00	50.00
Overall Financial Support	108.80	175.16	200.00	50.00

Transaction costs and RDR limits



Compare variations in financial support under each differentiation



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