



National Statistical Committee of the Republic of Belarus
Statistical System Coordination and Development Department

Self-assessment of data quality within the NSS

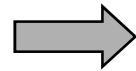
Marina Egorova, consultant

Workshop on the Implementation of a National Quality Assurance Framework for Official
Statistics in countries of Eastern-Europe/Central-Asia Region
Belgrade, Serbia, 10-13 December 2019



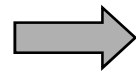
Steps of quality assessment

2010



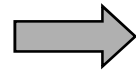
The Questionnaire and Methodology of self-assessment has developed

2011



The first assessment has conducted
(7 state statistical survey forms)

2012-2013

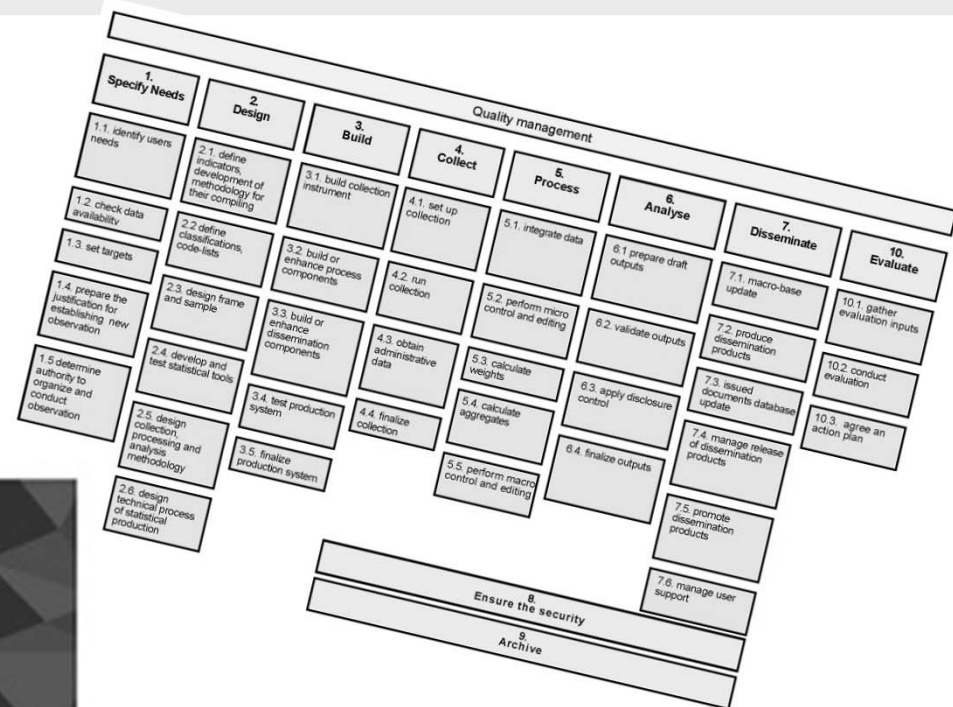


Total assessment
(more than 90 state statistical survey forms)

BUT! What do the results show? How to use it?



The most important instruments are...





New self-assessment checklist

- based on **DESAP** - the generic checklist for a systematic quality assessment of surveys in the European Statistical System;
- contains 100 questions of **different types** (assessment questions, questions with numerous response categories, open questions);
- provides the assessment on **data quality criteria** defined in Code of practice;
- estimates the quality of statistical data in focus on the **stages of statistical production**;
- specifies methodology of calculating data quality assessments on the basis of **rating method**



How does it work

Criteria (according to the Code of Practice)	Stages of statistical production				
	Specify needs	Design and Build	Collect, Process, Analyse	Disseminate	Evaluate
Sound Methodology (principle 7)					
Appropriate Statistical Procedures (principle 8)	→				
Non-excessive Burden on Respondents (principle 9)					
Cost Effectiveness (principle 10)	→				
Relevance (principle 11)					
Accuracy and Reliability (principle 12)					
Timeliness and Punctuality (principle 13)					
Coherence and Comparability (principle 14)	→				
Accessibility and Clarity (principle 15)					

**Rating
CRITERIA**

Rating STAGES

**Improvement
of Statistical
Activity**



How to process

Реестр заполненных Анкет качества статистических данных за 2019 г.

Ввод новых анкет ✂ Удалить Анкету ↶ Вернуть Анкету на доработку 🖨 Печать текущей Анкеты ✕ Выход

Перечень заполненных Анкет за: 2019 г.

Вид государственного стат. наблюдения: < все >

25 Ввод новой Анкеты качества 0615567 4-нетрудоспособность (Минздрав) Вид ГСН 1

71. Можно ли сравнивать официальную статистическую информацию, формируемую по оцениваемому наблюдению, с официальной статистической информацией других производителей (государственных организаций, уполномоченных на ведение государственной статистики, национальных статистических служб других государств, международных статистических организаций)?

- Нет, официальная статистическая информация, формируемая по оцениваемому наблюдению, не согласуется с официальной статистической информацией других производителей
 - Есть много отличий
 - Есть отличия, но они обоснованны
 - Незначительные отличия
 - Полностью согласуется
 - Аналогичной информации у других производителей нет, не применимо
- Нет ответа на вопрос 71!

72. Какие из приведенных ниже методов статистического анализа используются?

Используются:

- расчет индексов
- факторный анализ (анализ влияющих факторов)
- анализ сезонных колебаний
- анализ временных рядов динамики
- анализ структуры
всех территорий, форм собственности, видов экономической деятельности и прочее)
- другое (укажите)

Ни один из перечисленных методов не используется

Предыдущий <68-70>

Следующий <73-75>

Титульный лист

Отправить

Сохранить Анкету

Выход

1-2

3-5

6-9

10-12

13-15

16-18

19-21

22-23

24-26

27-30

31-34

35-36

37-38

39-41

42-43

44-45

46-48

49-51

52-5

55-57

58-61

62-63

64-67

68-70

71-72

73-75

77-79

80

81-82.2

82.3-82.

83-86

87-89

90-92

93-96

97-98

99-100



What have we got for centralized state statistical surveys

Example

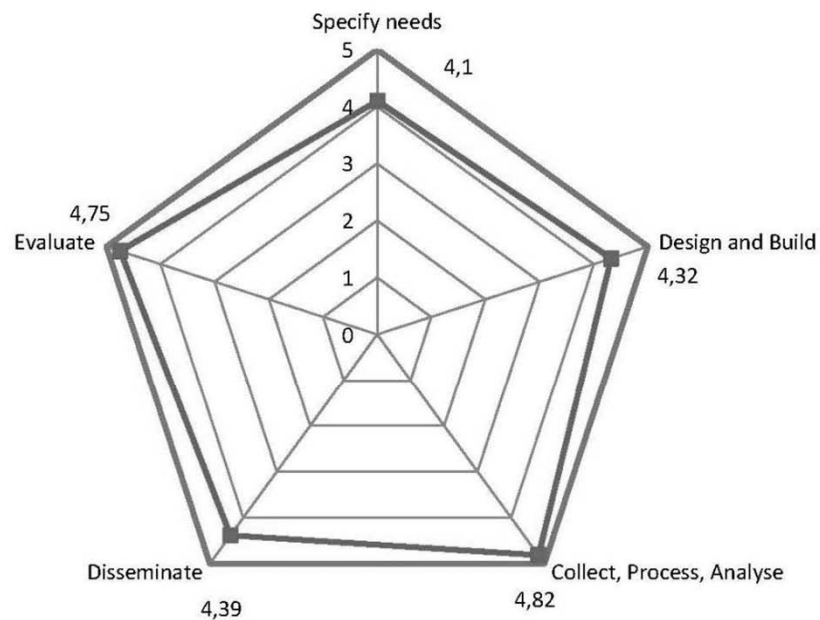
Chart 1

Quality assessment of statistical production processes

3062 Telecommunications Statistics

Time period: 2019 r.

	Reference value	Estimated value
Specify needs	5	4,1
Design and Build	5	4,32
Collect, Process, Analyse	5	4,82
Disseminate	5	4,39
Evaluate	5	4,75



— Reference value

- Estimated value



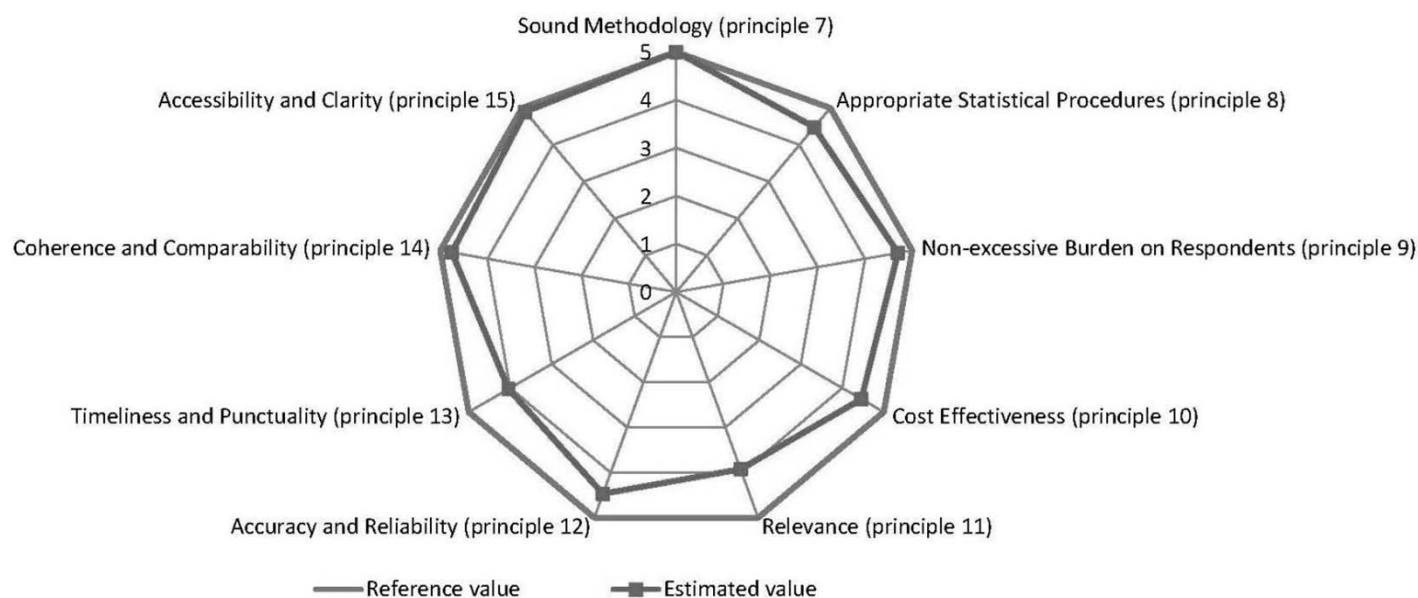
What have we got for centralized state statistical surveys

Chart 2

Example

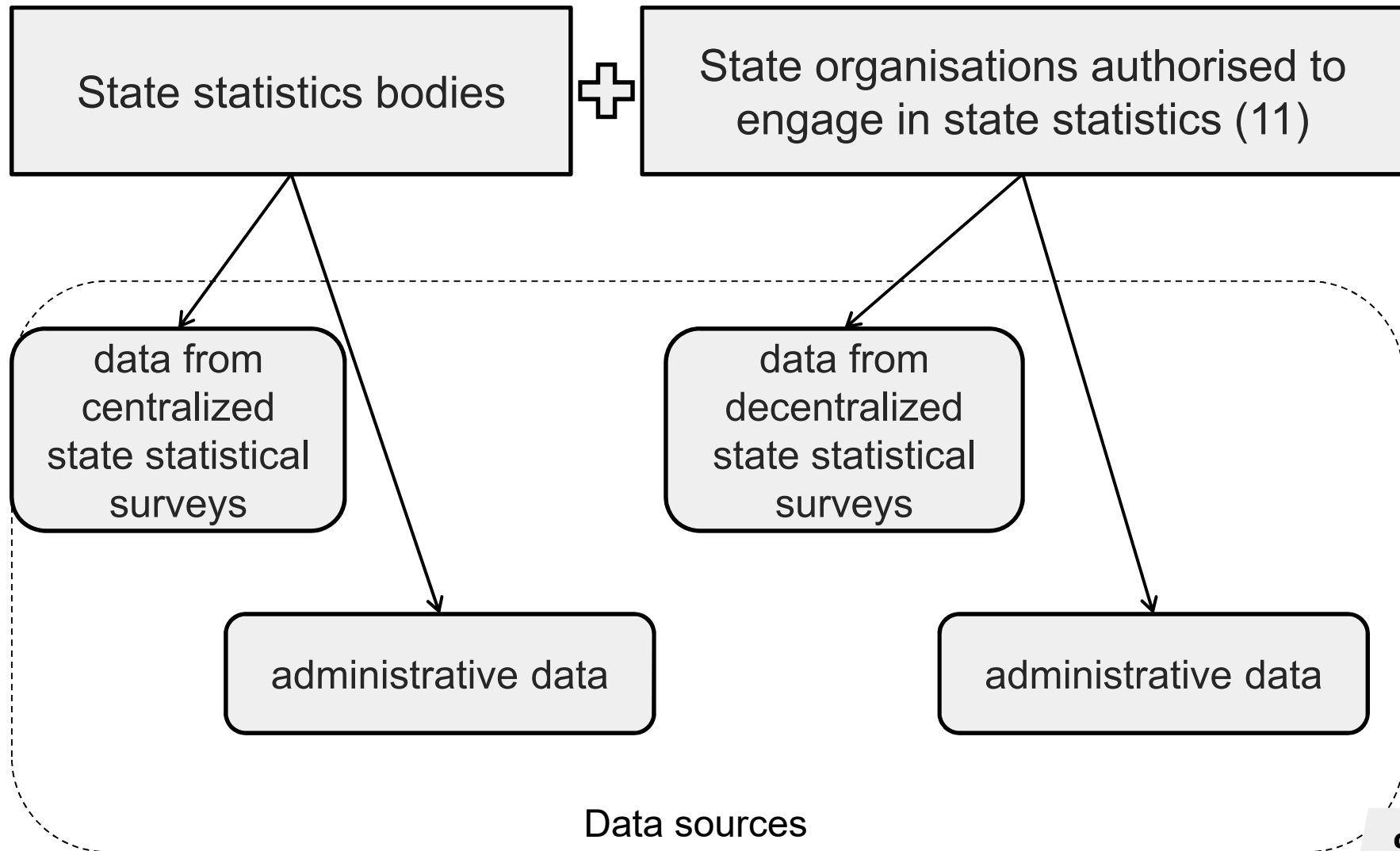
Quality assessment of criteria
3062 Telecommunications Statistics
 Time period: 2019 г.

	Reference value	Estimated value
Sound Methodology (principle 7)	5	5
Appropriate Statistical Procedures (principle 8)	5	4,48
Non-excessive Burden on Respondents (principle 9)	5	4,7
Cost Effectiveness (principle 10)	5	4,46
Relevance (principle 11)	5	3,93
Accuracy and Reliability (principle 12)	5	4,47
Timeliness and Punctuality (principle 13)	5	4,04
Coherence and Comparability (principle 14)	5	4,75
Accessibility and Clarity (principle 15)	5	4,9



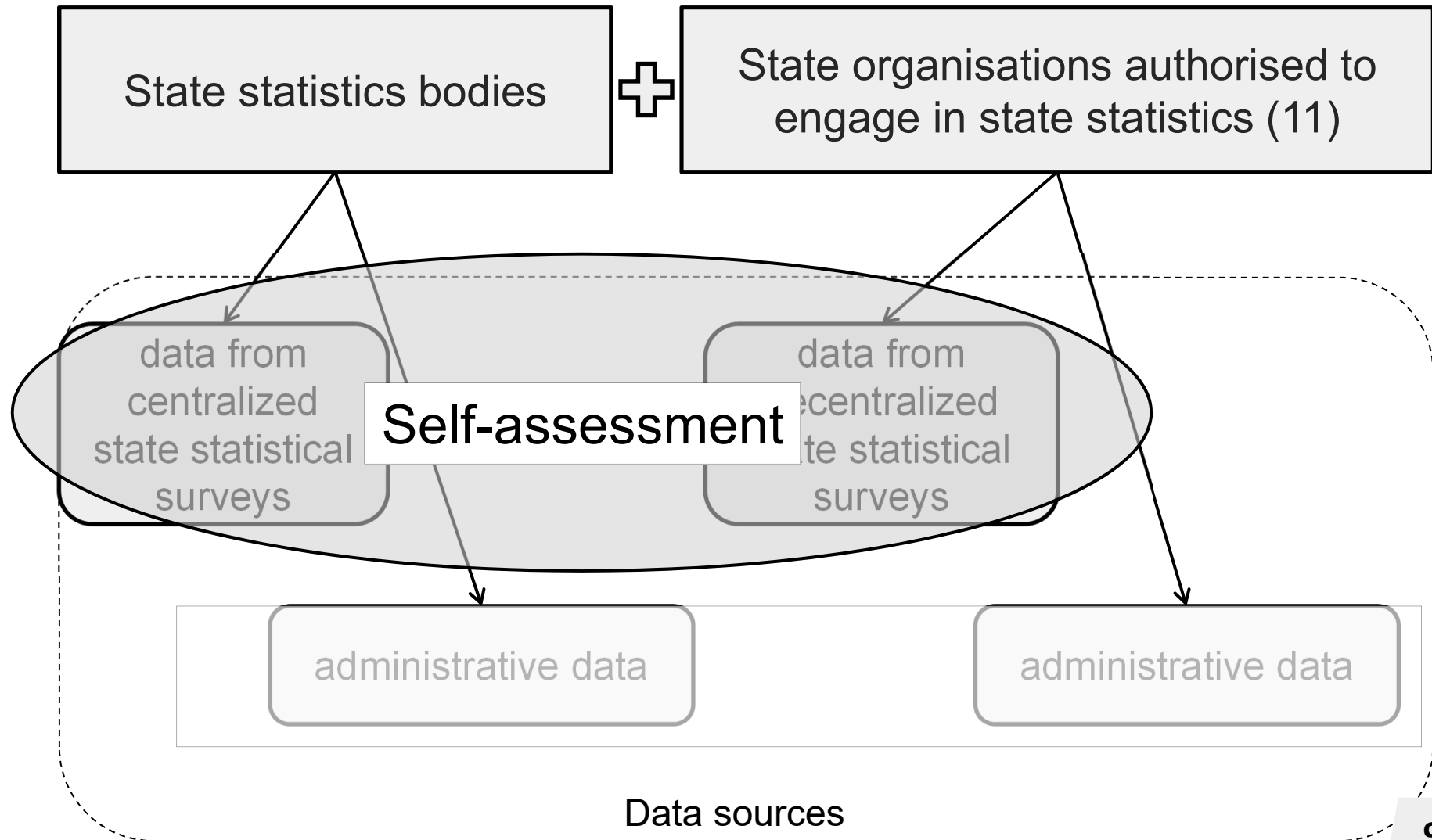


The official statistics production in the National statistical system





The official statistics production in the National statistical system





What have we got for the decentralized state statistical surveys

Example

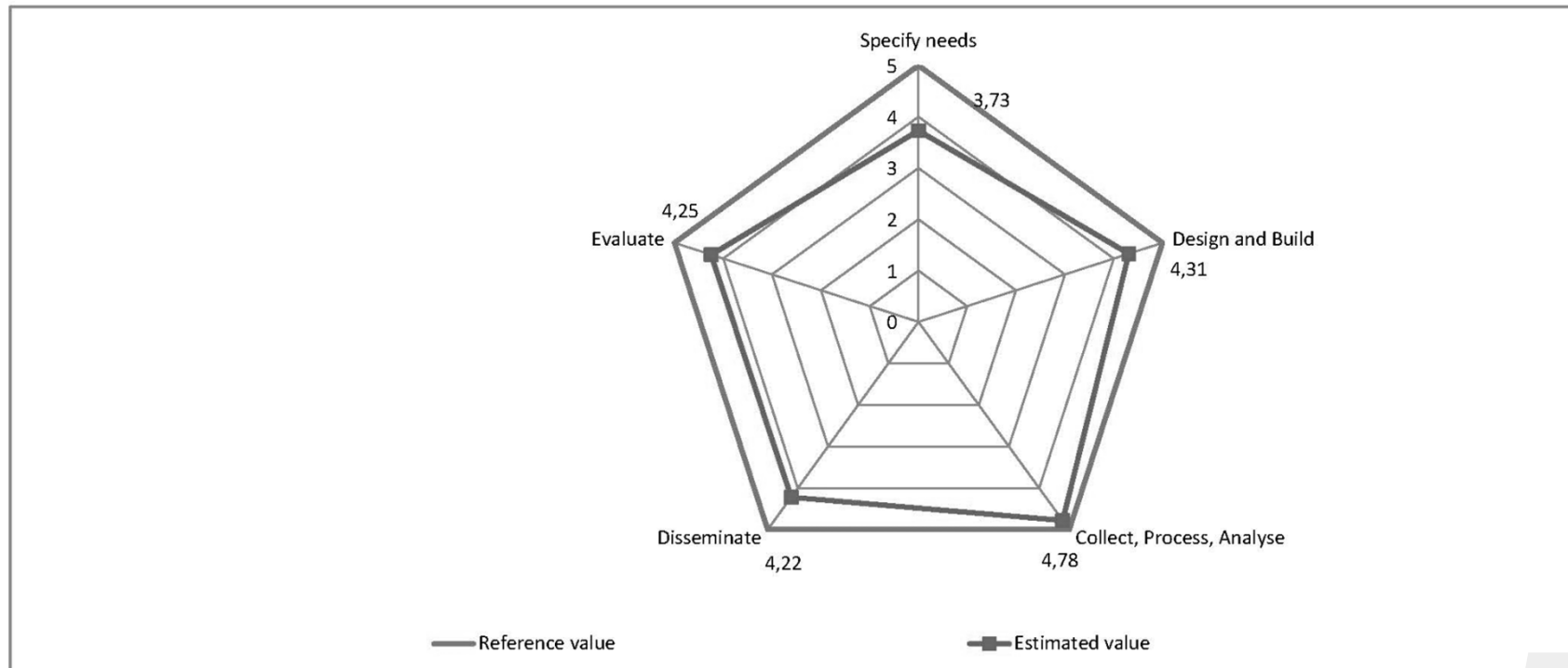
Chart 1

Quality assessment of statistical production processes

2141 Bank, Credit and Money Statistics

Time period: 2019 г.

	Reference value	Estimated value
Specify needs	5	3,73
Design and Build	5	4,31
Collect, Process, Analyse	5	4,78
Disseminate	5	4,22
Evaluate	5	4,25





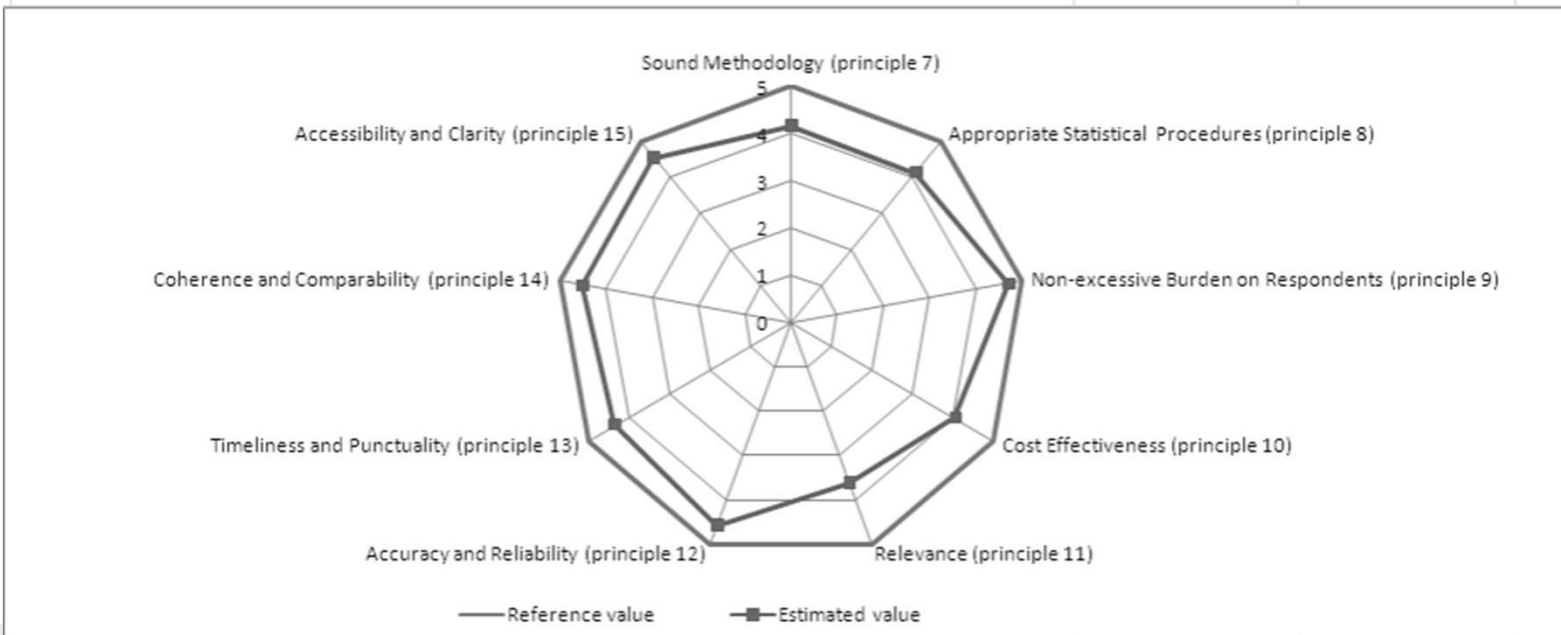
What have we got for the decentralized state statistical surveys

Chart 2

Example

Quality assessment of criteria
 2141 Bank, Credit and Money Statistics
 Time period: 2019 г.

	Reference value	Estimated value
Sound Methodology (principle 7)	5	4,17
Appropriate Statistical Procedures (principle 8)	5	4,15
Non-excessive Burden on Respondents (principle 9)	5	4,7
Cost Effectiveness (principle 10)	5	4,04
Relevance (principle 11)	5	3,63
Accuracy and Reliability (principle 12)	5	4,58
Timeliness and Punctuality (principle 13)	5	4,33
Coherence and Comparability (principle 14)	5	4,5
Accessibility and Clarity (principle 15)	5	4,56





Areas for perspective development

- to develop quality assessment tools for the administrative data
- to create the administrative database



Twinning Project



Thank you for attention!