System of maintenance contracting under Performance Based Contracts biggest transparency and savings in contracts Andrzej Maciejewski

Geneva

Strategic objective

ENSURING
SERVICES OF
THE BEST
POSSIBLE
QUALITY FOR
THE CLIENTS



BECOMING A
PUBLIC ENTITY
FOCUSED ON
MEETING THE
CLIENT'S NEEDS

Defining 'a service' and its performance mode

AREAS AND STRATEGIC PROJECTS

II.1. Managing the assets:

A.Routine maintenance strategy

1. of the

assets

- B.Periodic maintenance strategy
- C.Profit generation strategy

II. Efficient and effective management:

I. Functional and safe grid of national roads

2, of the

traffic

3. of the safety

II.2. Traffic management:

- A. ITS strategy –
 development
 and
 implementation
 in the grid of
 national roads
 - B. The strategy of labelling and organising the traffic

Basic objective

Subject matter and mode of managing to achieve the objective

Strategic collections of tools used to achieve the objective

II.3. Safety management:

- A. National Road Traffic Safety Programme
- B. Strategic safety management

Diagnosis of the starting point

- Poor method of funds distribution
- Lack of supervision over spending the funds
- Lack of connection between the diagnostics of the road grid with the realized tasks
- Lack of uniform maintenance standards throughout the entire grid
- Lack of a consistent model of maintenance management
- Lack of a national action plan concerning maintenance, renovations and reconstructions
- Low financial efficiency

Undertaken actions

- Working out a model of maintenance management
- Introducing uniform maintenance standards
- Introducing contracts for routine maintenance based on indicative settlements – PBC
- Preparing and realizing a multi-annual action plan within the existing grid based on the data and algorithms
- Changing the system of road diagnostics in connection with the action plan and programme for the existing grid

Diagnosis of the Asset
Management status

What is the current status of the assets I manage?

What is my financing strategy?

What is the required level of services?

What is my maintenance and investment strategy?

Which elements of the assets are critical?

Routine management

What elements are present on the roads

What financial benefits has been gained as a result of the changes

What is the required maintenance standard

How we regulate formal issues

What is needed by the Contractors to perform the services

Maintaining indicated standard of the road

Performing maintenance work

Managing maintenance work

Indicators

Technical

Roughness
Evenness
Carrying capacity
Depth of ruts and reductions

Non-technical

Performance Result Type objective/performance

Efficiency indicators

Movement

Traffic capacity
Fluidity
Safety

Economic

Cost-efficiency Financing level Social-economic efficiency

The use of a single, measurable indicators – determination of the indicatores value

		Standard I			Standard II			Standard III		
Elements of road and its			deviation from a rule			deviation from a rule			deviation from a rule	
	uipment		Taking actions / deadline to act	removal	description	Taking actions / deadline to act	removal	description	Taking actions / deadline to act	removal
gree	enery	Area evenly covered with plants Accepted high of grass: - in median lane max. 15 cm, - from lane edge to cut slope max. 15 cm, - for cut slope to edge of road max 25 cm.	Up to 24 hours	Up to 2 weeks	Area evenly covered with plants Accepted high of grass: - in median lane max. 20 cm, - from lane edge to cut slope max. 20 cm, - from cut slope to edge of road max 30 cm.	Up to 24 hours	Up to 4 weeks	Area evenly covered with plants Accepted high of grass: - in median lane max. 25 cm, - from lane edge to cut slope max. 25 cm, - from cut slope to edge of road max 30 cm.	Up to 24 hours	Up to 6 weeks

The use of a single, measurable indicators – control

- 1. Indicator: Length of grass
- 2. The method to determine whether the indicator has been achieved: the measurement
- 3. Principle of indicator measurement: the measurement is done with a simple tool straight edge angle on selected areas of the surface of 10 m2 with different lighting conditions and irrigation

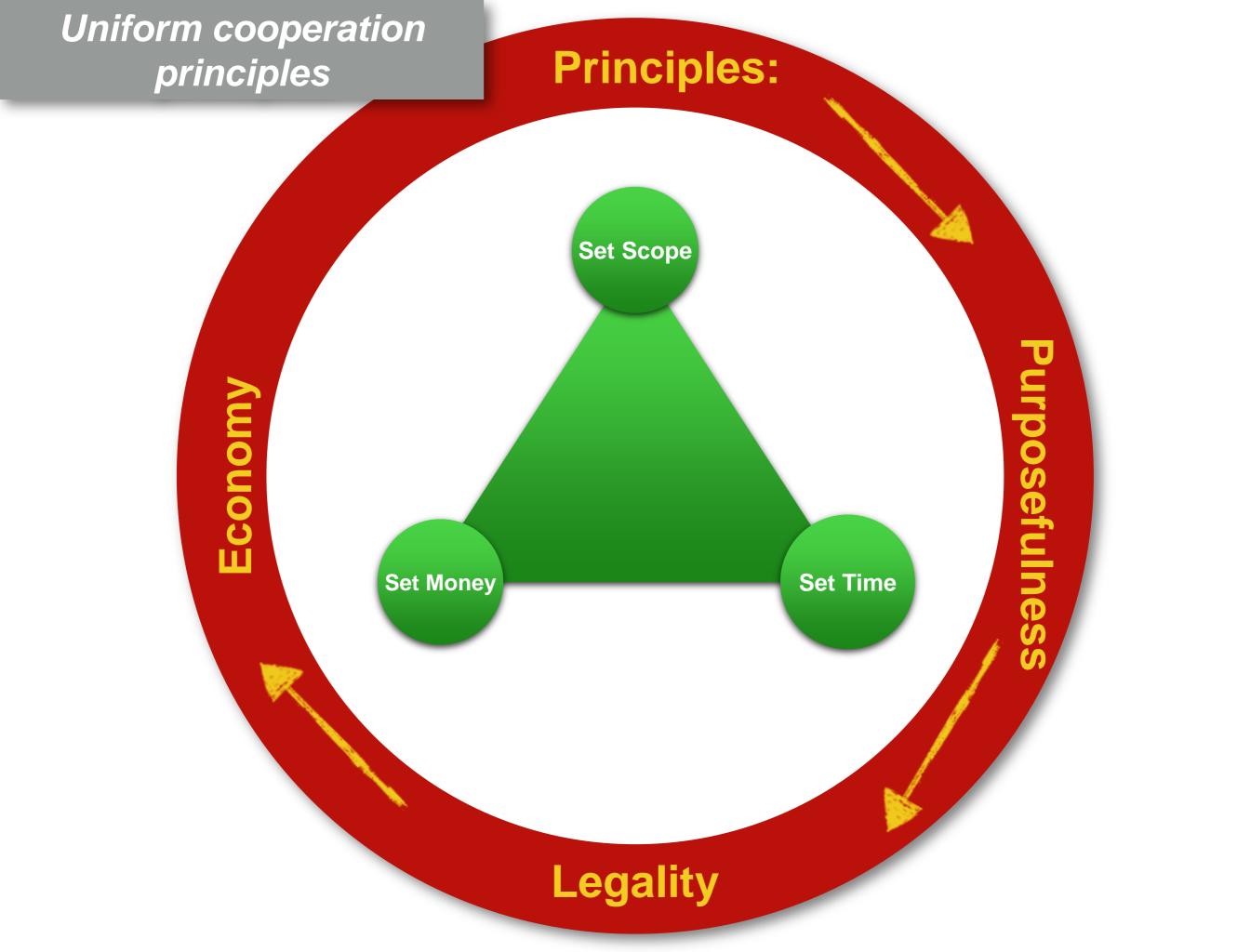
Freedom granted to the Contractor

Minimalization of organizing the maintenance works

GDDKiA does not indicate the frequency and method of maintenance and ad hoc works



Contractor manage maintenance and ad hoc works



Standard tender documents

The use of a unified tender documents



description of the contract



penalty card

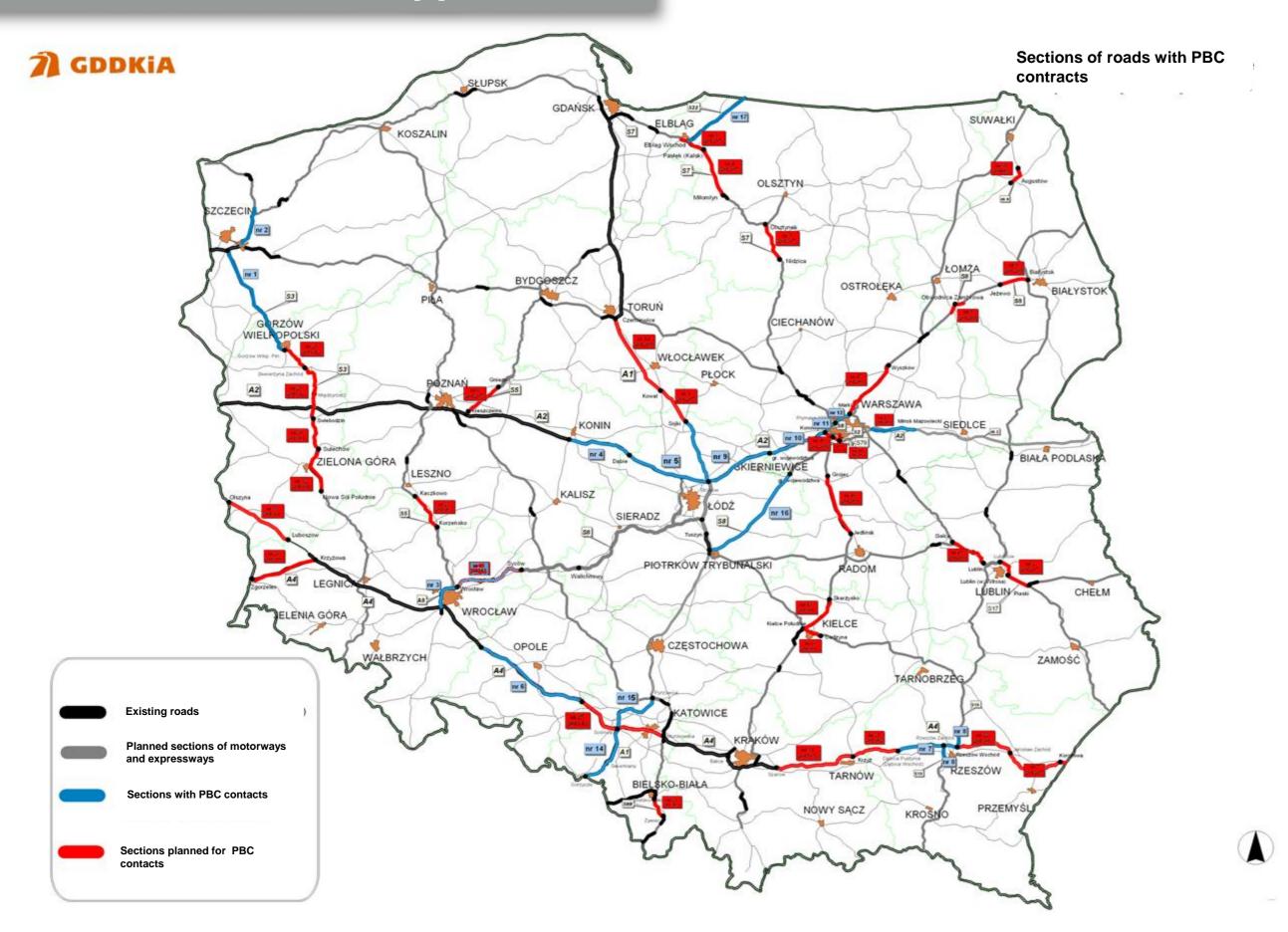


performance monitoring indicators



the model contract

All PBC contracts – app. 850 km



Important words as a conclusion

MANAGING THE ORGANISATION

MANAGING THE PROCESS MANAGING THE CONTRACT

EFFICIENCY

EFFECTIVENESS

COUNTABILITY

MEASURABILITY

PURPOSEFULNES S

LEGALITY

ECONOMY

EFFICIENCY

- achieving best results
- maximizing profits
- optimal use of resources

EFFECTIVENESS

relation of results to

 expenses
 careful supervision and
 reduction of costs

 applying relevant processes

Savings

Investor's costestimate for PBC contracts – 100%

- PWC indicates savings at about 10%
- The World Bank indicates savings up to 40%
- GDDKiA, comparing the investor's cost-estimate with the contract price, indicates 30% difference compared with the planned amount

Average contract prices – 70%

Next steps

 Developing the provisions of standard documents and standard road maintenance

Preparing the road user card (analysis of users' needs)

Introduction of area road maintenance in the PBC model

 Preparing and implementing indicators concerning the structure and surface of the road (DSN)