ADDITIONAL INFORMATION - 1 - Total costs and unit costs

a) Description of the methodology used for allocating costs of facilities or services between different air navigation services based on the list of facilities and services listed in ICAO Regional Air Navigation Plan, European Region (Doc. 7754), and a description of the methodology used for allocating those costs between different Charging Zones;

For the RP2 the cost base for terminal charges in Poland consists of costs incurred by three organizations:

- Polish Air Navigation Services Agency (PANSA) certified and designated provider of air traffic services and certified provider of CNS services and AIS,
- Mazowiecki Port Lotniczy Warszawa-Modlin sp. z o.o. (MPL WM) certified and designated AFIS provider at Warsaw/Modlin airport (AFIS services are provided by MPL WM from 10.00 pm to 6 am),
- Civil Aviation Authority of the Republic of Poland (CAA) national supervisory authority.

In the RP1 the cost base for terminal charges in Poland consists of costs incurred also by three organizations but instead of MPL WM it includes costs incurred by Institute of Meteorology and Water Management National Research Institute (IMWM) – certified and designated MET services provider. Designation of IMWM for terminal services expires at 31.12.2014 and as a consequence starting from 01.01.2015 IMWM will not be covered by the scope of EC charging regulation with regard to terminal charges and as a result no separate reporting table for IMWM has been developed. For the RP2 MET services will be purchased by PANSA following public tender and will be reported in PANSA's costs. (see further explanation below).

The table below presents list of accountable entities in terminal cost-efficiency area for RP1 and RP2.

	RP1	RP2
	PANSA (ATS, CNS, AIS, SAR coordination)	PANSA (ATS, CNS, AIS, SAR coordination + MET costs)
TNC	IMWM (MET)	MPL WM (AFIS) CAA (NSA+MS)
	CAA (NSA+MS)	

For the year 2015 PANSA proposes to maintain the single terminal charging zone in Poland comprising all controlled airports in Poland (14), where PANSA has been designated for ATS (namely: Warsaw, Kraków, Katowice, Wrocław, Gdańsk, Poznań, Szczecin, Łódź, Zielona Góra, Rzeszów, Bydgoszcz, Modlin, Lublin and Radom).

From 2017 it is proposed to establish two terminal charging zones in Poland, the first one comprising Warsaw airport, the second comprising all other airports (13). For further information see Additional Information 2 letter a) below.

Methodology used for allocating costs between en route and terminal ANS

For criteria for allocation of PANSA's and CAA's costs between ER and TNC see Additional Information – 1 for en-route charges.

With regard to MPL WM it provides only terminal services therefore all its ANS costs are allocated to terminal charges. Services provided by MPL WM are limited to 3 types:

- 1. Air Traffic Management (ATM) including area control service, flight information service and alerting service,
- 2. Communication aeronautical telecommunications service,
- 3. Meteorological services providing aircraft meteorological information and data.

The first two kinds of services are provided by the same AFIS team and the same facilities (aeronautical control tower). The costs are split between them based on the estimation of working time dedicated to each service. Based on historical data it was assumed that 90% of time is allocated to ATM and the rest to Communication.

For MET services MPL WM is able to exclude separate facilities. Also meteorological information is delivered by external company. It allows to calculate costs of this service independently.

b) Description of the methodology and assumptions used to establish the costs of air navigation services provided to VFR flights, when exemptions are granted for VFR flights;

I. PANSA

From 2014 PANSA calculates costs of air navigation services provided to VFR flights through marginal cost methodology. As the result, the whole cost is allocated to En-Route.

II. MPL WM

Warsaw/Modlin air navigation services provided by AFIS mainly relate to VFR flights. In year 2015 MPL WM expects to have 5000 operations (landing) and 95% of them will be exempted flights. It means that approximately 263 operations will be scheduled. In the following years MPL WM assumes increase by 10% each year in number of operations using its AFIS and MET services.

To calculate VFR cost MPL WM uses marginal cost methodology assuming that unit cost of one operation is the same, whether it is a VFR or IFR flight.

c) Description and justification of any adjustment beyond the provisions of the International Accounting Standards;

I. PANSA

N/a. PANSA is fully in line with the International Accounting Standards.

II. MPL WM

MPL WM follows the rules of Local Accountancy Act, but there are not material or relevant differences between adopted standards and IAS. IAS according to Polish law is not obligatory for entities like MPL WM and therefore the MPL WM used the legal possibility that states: "where, owing to the legal status of the service provider, full compliance with the International Financial Reporting Standards is not possible, the provider shall endeavor to achieve such compliance to the maximum possible extent".

III. CAA

The CAA, as a national budgetary unit financed from state budget, is obliged to follow accounting regulations applicable to national administration bodies. As a consequence, the CAA does not apply IAS but follows national regulations regarding budgetary units which are based on cash accounting rules.

d) Description and explanation of the method adopted for the calculation of depreciation costs: historic costs or current costs. When current cost accounting is adopted, provision of comparable historic cost data;

I. PANSA

PANSA uses the historic cost method for the calculation of depreciation costs. No asset revaluation has been included in the asset base for air navigation charges.

II. MPL WM

As for depreciation, MPL WM uses historic cost principles. MPL WM's facilities are depreciated using the straight-line depreciation method.

III. CAA

As a budgetary unit, following the national regulations on all public administration bodies, CAA does not calculate depreciation on its assets.

e) Justification for the cost of capital, including the components of the asset base, the possible adjustments to total assets and the return on equity;

I. PANSA

Assumptions for determining the cost of capital and the return on equity

PANSA determines the cost of capital based on the methodology of The Weighted Average Cost of Capital. It comprises the cost of equity and the cost of debt, weighted by their relative share in a company's capital structure.

PANSA estimates benefit from equity finance using the Capital Asset Pricing Model (CAPM). According to CAPM, Agency's cost of equity is equal to a market risk-free rate of return, plus a premium above the risk free rate to reflect the relative riskiness of the company and its investments. When calculating cost of equity for the RP2 the following assumptions have been taken initially into consideration by PANSA:

- risk free rate of return (4,42%) equal to long term government bond yields reported by Eurostat for month of January 2014 for Poland¹,

the equity risk premium (4,80%) representing the excess return over the risk free rate assumed on the Damodoran approach basis,

- equity beta (0,515) measuring the correlation between the riskiness of an asset and that of the overall market. Estimated value is in line with equity beta's assumed by other providers for the RP1 and equity beta's assumed by regulated entities in a number of industries.

As far as PANSA does not plan to use debt financing in the whole RP2, the cost of debt has been assumed at 0.0% level.

It has to be noted that the WACC used for calculation of the cost of capital in the reporting tables was equal not to 8,43% (pre-tax rate) but 6,63% (post-tax rate). Additionally, for 2017-2019 the WACC has been further reduced by the CAA in order to ensure consistency with en-route costs assumptions and alignment of PANSA's determined costs with local cost-efficiency target. As a consequence, PANSA's cost of capital for the RP2 is lower than allowed under the charging scheme provisions and reflects Polish commitment to improve performance in cost-efficiency area. ROE for terminal services for 2017-2019 is slightly lower than for ER what is justified by exclusion of terminal services from traffic risk sharing provisions as allowed under article 13.6 of the Charging Regulation

After the consultation process preceding the RP2 PANSA took a good note of airspace users' and CAA's expectations and has decreased the cost of capital also for years 2015-2016. For the final cost base the following assumptions were used:

the RoE for 2015-2016 was reduced – lower risk-free rate was assumed (instead of 4,42% used before currently 4,03% is applied which reflects average interest on bonds in 2013),

modified asset beta (0,4 instead of previously used 0,5015).

As a consequence, the cost of capital was lowered, in accordance with users' expectations.

ANSP/Entity: PANSA			RP2	PP			
	Underlying		For the de	termined cos	t of capital	901 21 x	
Assumptions for the Cost of Capital (WACC) in nominal terms	assumptions for an "efficient" WACC	2015 D	2016 D 2017 D		2018 D	2019 D	
Capital structure (% debt)	60%	0,0%	0,0%	0,0%	0,0%	0,0%	
Corporate tax rate %	19,0%	19,0%	19,0%	19,0%	19,0%	19,0%	
Risk free rate % (nominal)	4,03%	4,03%	4,03%	4,03%	4,03%	4,03%	

¹http://epp.eurostat.ec.europa.eu/tgm/table.do?tab=table&init=1&language=en&pcode=teimf050&plugin=1

Market (equity) risk premium % (after tax)	4,80%	4,80%	4,80%	4,80%	4,80%	4,80%
Asset beta	0,40	0,40	0,40	0,40	0,40	0,40
Debt beta	0,00	0,00	0,00	0,00	0,00	0,00
Equity beta	0,89	0,40	0,40	0,40	0,40	0,40
Return on Equity % (after tax)	8,29%	5,95%	5,95%	5,95%	5,95%	5,95%
Return on Equity % (pre tax) - T1 3.6	10,23%	7,35%	7,35%	7,35%	7,35%	7,35%
Debt risk premium %	1,52%	1,92%	1,92%	1,92%	1,92%	1,92%
Interest on debt % (pre tax) - T1 3.7	5,55%	5,95%	5,95%	5,95%	5,95%	5,95%
WACC % (pre tax) - T1 3.5	7,42%	7,35%	7,35%	7,35%	7,35%	7,35%

ANSP/Entity: PANSA	Notional "efficient" WACC in RP2	Determined cost of capital in RP2			
Capital structure (% debt)	60%	0,00%			
Corporate tax rate %	19%				
Risk free rate % (nominal)	4,03% - explanation for the assumptions abo	ove			
Market / risk premium % (after tax)		4,8%			
Asset beta	0,4	0,4			
Debt beta	0	0			
Debt risk premium %	Difference between interest on debt (%pre tax) and risk free rate (% nominal)				

The level of the cost of capital of PANSA for years 2017-2019 has been reduced by the CAA as compared to the assumptions presented in the above table to 5,43% in 2017, 3,47% in 2018, 3,52% in 2019. This reflects Poland's commitment to ensure consistency with en-route costs assumptions and alignment of PANSA's determined costs with local cost-efficiency target.

Asset base

ANSP/Entity: PANSA	RP2 PP
Components of the asset base	RPZ PP
3.1 Net book val. fixed assets	The average net book value of fixed assets for terminal services provision has been taken into account with the assumption of execution of the investment plan of PANSA at the level of 85% in the whole RP2. As a consequence, the asset base is lower that presented earlier for the purpose of consultation with stakeholders, which takes into account users' comments and expectations
3.2 Adjustments total assets	n/a
3.3 Net current assets	The calculation of the level of net current assets follows methodology recommended by the CRCO when auditing PANSA's cost base in 2010 and takes into account only the assets that are necessary to perform ANS, and as a consequence excludes interest bearing items.
3.4 Total asset base	The increase in the total asset base is a result of planned investments (information on the investment plan is provided in subsequent part of this Plan). This is mainly due to the increase of the technological level, functionality of the ATM system and the development of CNS / ATM infrastructure.

Average asset base	2015	2016	2017	2018	2019
Net book val. fixed assets	116 528	125 761	132 107	147 432	161 391
Adjustments total assets	0	0	0	0	0
Net current assets	-3 801	7 664	12 709	14 298	14 850
Total asset base	112 728	133 424	144 817	161 730	176 240

II. MPL WM

Assumptions for determining the cost of capital and the return on equity

MPL WM as a very small entity has decided not to use the CAPM model to compute WACC and Return on Equity.

Due to fact that MPL WM is the company financed with only equity and debt, the average cost of capital was computed as follows:

$$WACC = \frac{D}{D+E}K_d + \frac{E}{D+E}K_e$$

Where:

- D is the total debt,
- · E is the total shareholders' equity,
- Ke is the cost of equity,
- Kd is the cost of debt.

All the figures used in MPL WM cost of capital calculation are presented in the table below:

	Year 2015	Year 2016	Year 2017	Year 2018	Year 2019
Net Book Value of Assets	5 597,3	5 300,5	5 003,7	4 706,9	4 410,0
Net Book Value of Assets *excluding EU funds	1 141,9	1 081,3	1 020,8	960,2	899,6
3.6 Return on equity	3,50%	3,50%	3,50%	3,50%	3,50%
3.7 Avr interest on debts	3,63%	3,63%	3,63%	3,63%	3,63%
Shareholders' equity - E	210 134,1	217 846,4	230 488,0	252 296,8	273 904,8
Debts - D	246 060,6	229 706,3	232 357,0	210 521,9	188 913,9
WACC	3,57%	3,57%	3,57%	3,56%	3,55%
Cost of capital	40,8	28,6	36,4	34,2	32,0
AFIS	28,5	27,0	25,5	23,9	22,4
METEO	12,2	11,6	10,9	10,3	9,6

ROE is based on the annual level of Polish four-year treasury bond interest rate.

Asset base

Components of the asset base	2015	2016	2017	2018	2019
Net book val. fixed assets	1 141,9	1 081,3	1 020,8	960,2	899,6
Adjustments total assets	0,0	0,0	0,0	0,0	0,0
Net current assets	0,0	0,0	0,0	0,0	0,0
Total asset base	1 141,9	1 081,3	1 020,8	960,2	899,6
AFIS asset base	799,3	756,9	714,6	672,1	629,8
MET asset base	342,6	324,4	306,2	288,1	269,8

Net book value of asset was calculated based on deprecation rules described above (see point d for MLP WM). The assets are valued based on historical costs without any adjustments of their book value.

III CAA

CAA does not calculate the cost of capital and does not include it in its cost base.

(f) total costs per airport for each airports with fewer than 70 000 IFR air transport movements per year, when these are provided in a consolidated way in the reporting table;

See reporting table "Table 1 List others".

g) Definition of the criteria used to allocate costs between terminal and en route services for each airport within the scope of this Regulation;

See point a above. Criteria are the same for all airports.

h) Breakdown of the meteorological costs between direct costs and 'MET core costs' defined as the costs of supporting meteorological facilities and services that also serve meteorological requirements in general. These include general analysis and forecasting, surface and upper-air observation networks, meteorological communication systems, data processing centres and supporting core research, training and administration;

For MET services at all 14 airports for the RP2 they will be purchased following a public tender to be announced by PANSA later this year. As a consequence, at this stage it is not possible to indicate breakdown of these costs.

MPL WM

MET services do not serve any meteorological requirements in general. As a consequence, no core costs are identified.

i) Description of the methodology used for allocating total MET costs and MET core costs to civil aviation and between Charging Zones;

N/a – see point h) above. See ER Additional Information – 1 point i) that describes how MET costs presented in PANSA's reporting table are calculated and allocated between ER and TNC.

j) Nineteen months before the start of a reference period, description of the reported forecast costs and traffic:

Not applicable for this submission

k) Description of the reported actual costs and the difference from the determined costs, for each year of the reference period;

Not applicable for this submission.

I) Description of the reported actual service units and the differences both against the forecast and compared with the figures provided by EUROCONTROL, as appropriate, for each year of the reference period;

Not applicable for this submission.

m) Every year of the reference period, the difference between the investments of the air navigation service providers recorded in the Performance Plans and the actual spending, as well as the difference between the planned date of entry into operation of these investments and the actual situation.

Not applicable for this submission.

ADDITIONAL INFORMATION - 2 - Unit rate calculation

a) Description and rationale for establishment of the different Charging Zones, in particular with regard to terminal Charging Zones and potential cross-subsidies between airports;

Since 2010 in Poland there has been a single terminal charging zone covering all airports, where PANSA provides air traffic services under its designation.

For 2015 and 2016 the single terminal charging zone in Polish airspace will be maintained. It will cover the following airports in Poland:

- EPWA Warsaw Airport,
- EPKK Kraków Airport,
- EPGD Gdańsk Airport,
- EPPO Poznań Airport,
- EPWR Wrocław Airport,
- EPSC Szczecin Airport,
- EPKT Katowice Airport,
- EPLL Łódź Airport,
- EPRZ Rzeszów Airport,
- EPZG Zielona Góra Airport,
- EPBY Bydgoszcz Airport,
- EPMO Modlin Airport,
- EPLB Lublin Airport,
- EPRA Radom Airport.

Following users' remarks expressed during consultation process and after analysis of various scenarios of terminal charging zones for RP2, it was decided to **modify the configuration of the charging zones starting from 2017**, in line with the date at which EU-wide target for terminal cost-efficiency will be adopted. **From 01.01.2017 until the end of RP2 two terminal charging zones** in Polish airspace **will be established** as following:

- The first terminal charging zone:
 - EPWA Warsaw Airport.
- The second terminal charging zone:
 - EPKK Kraków Airport,
 - EPGD Gdańsk Airport,
 - EPPO Poznań Airport,
 - EPWR Wrocław Airport,
 - EPSC Szczecin Airport,
 - EPKT Katowice Airport,
 - EPLL Łódź Airport,
 - EPRZ Rzeszów Airport,
 - EPZG Zielona Góra Airport,
 - EPBY Bydgoszcz Airport,
 - EPMO Modlin Airport,
 - EPLB Lublin Airport,
 - EPRA Radom Airport.

The additional period of two years before the charging zones are changes will allow all stakeholders to prepare for the change and address possible consequence of the change in their plans.

The attached reporting tables for terminal charges have been prepared in two versions accordingly. Data presented in those tables for a single charging zone are coherent with data for two charging zones.

b) Description of the policy on exemptions and description of the financing means to cover the related costs;

According to national law (Article 130 (6) of Aviation Act of 3 July 2002) the following flights are exempted from air navigation charges (both en-route and terminal) in Poland:

- performed under Visual Flight Rules (VFR);
- mixed where a part of the flight is performed under Visual Flight Rules (VFR) and the remaining part is performed under Instrument Flight Rules (IFR) for the part of the flight performed in the Polish airspace exclusively under VFR rules;
- performed by aircraft of which the maximum take-off weight is less than 2 tons;
- performed exclusively for the transport, on an official mission, of the reigning monarch and his/her immediate family, head of state, head of government and government ministers; in all cases the flight purpose must be confirmed by the appropriate flight status indicator or remark on the flight plan;
- search and rescue, authorized by a competent SAR coordination body;
- military performed by Polish military aircraft or military aircraft of a country where flights performed by Polish military aircraft are exempted from the air navigation charges;
- performed for military purposes and exempted from charges, under international agreements ratified by Poland in statutory way;
- flights performed by ANSP for the purpose of checking or testing equipment.

Costs of providing air navigation services to exempted flights are covered by the State budget – they are financed by the means of budgetary subsidy granted by the minister responsible for transport on the application of designated service provider.

c) Description of the other revenues, if any, broken down between the different categories;

I. PANSA

The income from other sources planned for the years 2015-2019 is due to the expected possible payment from the European Union. PANSA applied for the refinancing of the several investments from the Infrastructure and Environment Operational Program.

For the RP2 it was assumed that respective depreciation corrections as well as cost corrections related to promotion, training (deductions, presented as income from other sources) will contribute to TNC cost base in the following years, with the following amounts:

Year	Amount
i cai	(PLN)
2015	2 354 391
2016	2 519 346
2017	2 438 785
2018	2 397 257
2019	1 804 133

II. MPL WM

There are no revenues from other sources planned for the RP2.

III. CAA

There are no revenues from other sources planned for the RP2.

d) Description and explanation of incentives applied to users of air navigation services;

No incentives are applied on airspace users in Poland.

e) Description and explanation of the modulation of air navigation charges applied.

N/a

ADDITIONAL INFORMATION - 3 - Complementary Information

a) Breakdown of the costs of common projects per individual project;

N/a

b) Description of the amounts resulting from uncontrollable costs factors by nature and by factor, including the rationale and the changes in underlying assumptions;

Not applicable for this submission.

c) Description of the carry-overs of over- or under-recoveries incurred by Member States up to the year 2011 for en route charges and up to the year 2014 for terminal charges;

The adjustment mechanism resulting from the differences recorded up to 2013 continues to be applied in line with the Charging Regulation. That is why under or over-recoveries incurred prior to the start of 2015 should be taken into account during establishing unit rates for the RP2.

Under/over-recoveries incurred before the application of the determined cost method (before RP2) were adjusted according to the total service units instead of the chargeable service units. The following formula was used: <u>adjusted amount carried over = amount carried over x total service units for 2013/ chargeable service units for 2013.</u> Tables below present balances of terminal under/over recoveries of 2008-2013 before adjustment for TSU/CSU (table 1) and after adjustment (table 2). Under/over recoveries presented in the table 2 will be added to or deducted from chargeable cost base in the RP2.

Table 1. Under/Over-recoveries before adjustment for TSU/CSU

Carry over from	Balance of the Year	Before RP2	After RP1		2015	2016	2017	2018	2019
2009	-28 083	-22 466	-5 617	- 91 11	-5 617			# -×	0 0 3 ± 81
2010	992	992	0						
2011	15 692	9 415	6 277		6 277				
2012	6 817	3 408	3 408		3 408				
2013	16 237	2.2 % 3 ^{7.0} 1	16 237		5 412	5 412	5 412		
2014		8 a		i i i			0	· ·	
Total	11 655	-8 651	20 306	0 - 0	9 481	5 412	5 412	0	(

Table 2. Under/Over-recoveries after adjustment for TSU/CSU

Carry over from	After RP1	2015	2016	2017	2018	2019
2009	-5 716	-5 716	E a l'ia	. 7 12	i di en di fa di al 11 fa fa e es	
2010	3 × 5 5 7 × 5 7					
2011	6 388	6 388				
2012	3 469	3 469				
2013	16 525	5 508	5 508	5 508		
2014		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1 1 7 7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Total	20 666	9 649	5 508	5 508	0	0

d) Description of carry-overs resulting from the traffic risk-sharing mechanism;

Not applicable for this submission.

e) Description of carry-overs resulting from the cost sharing mechanism.

Not applicable for this submission.

ADDITIONAL INFORMATION – 4 – Additional justifications for the RP2 Performance Plan

a) Contribution of the air navigation service providers to the achievement of the performance target

I. PANSA

ANSP:	PANSA	Designated for:	<ats met=""></ats>
	Determined costs f	or RP2 (by nature)	
1.1 Staff costs	Ta as to the second		
Composition of the cost item:			I contributions to the Social Fund
C	includes obligatory contributions		
Explanations of the planning			30" published on 27 April 2012 as
assumptions and annual	appendix to the Resolution No 2		dated 15 December 2011.
variations in the cost item	The following have a significant		ith the designment (Air traffic
over RP2:			nce with the document 'Air traffic
		2014-2019, prepared by Pers	sonnel Training and Developmen
	Office,		
	- increase of licensed ATCOs.		
			ulations, which includes incentive
	bonus system for employees, ar		1 1
	- ensure the smooth functioning		y,
	- ensure implementation of plan		
	- improvement of PANSA's ecor		
	- improved productivity and qual		
			onditions such as: the scheduled
	tasks are realized and the plann	ied PANSA's revenues are act	hieved.
Description of cost-efficiency			to increase the benefits resulting
improvements planned in	from increased efficiency, it is no		
RP2:	The increased level of staff cor	npetence, improvement of the	eir knowledge base and skills, wil
	result in increased productivity a	and efficient use of resources.	
Main changes compared to	Staff costs in 2014 were genera	ated as a result of providing te	rminal service to newly opened in
RP1 (determined and actual	2012 airports: Modlin, Lublin.		
costs):	The state of the s		
1.2 Other operating costs	. 10		
Content of the cost item:	Materials, Energy, Taxes and ch	harges Services (including MF	T) Other Costs
Content of the cost item.			y PANSA following public tender
	(hased on the assumption that	any MET provider for termin	al services will not be designated
	after 31.12.2014).	any will provider for termina	ar corridos vim not de accignates
Explanations of the planning		her operating costs during the	RP2 are caused by the necessity
assumptions and annual			ANSA's technical infrastructure, as
variations in the cost item			vices due to aging of the technica
over RP2:	infractructure, as well as due to	the expected increase in price	es of materials and repair services
over RF2.	(inflationary increase) Another	component of operating costs	are costs of technical inspections
			SA, telecommunications charges
	consultancy services, rents an	ANCA chauld load to doores	d office space. The infrastructure ase of the technical maintenance
	modernization performed by P.	ANSA SHOULD lead to decrea	est position in the other energting
			cant position in the other operating
	costs constitute the mandatory	insurance costs for annually r	renewed insurance policies, which
	cover liability and property. Cos	ts of impairment charges below	ngs also to this group of costs.
		ne operating costs. This item	consists of business and training
	trips.	de la companya del companya del companya de la comp	1 - 2 - 1 - 1 - 0 1 - A - 1 - 2
			described in letter a in Additiona
			under Table 1 for PANSA in line
			in line with article 7.2 of the EC
	Charging Regulation No 391/20		
Description of cost-efficiency	Undertaken and planned invest	tment and development activity	ties are aiming for state of the ar
improvements planned in			e functioning of the Agency in the
RP2:	domains of communication, na	ivigation and surveillance. The	ne planned activity is essential to
	maintain the quality and safety		
Main changes compared to			chnical solutions such as: VCS
RP1 (determined and actual	multilateration, GNSS, relative	infrastructure maintenance co	sts should fall by several percent
			se operating costs. Similar effect
costs):	representation and the second	f CNS/ATM infrastructure ratio	
	should have parallel process of	f CNS/ATM infrastructure ratio	
	should have parallel process of cooperation with neighbouring A	ANSPs.	onalization supported by extended
	should have parallel process of cooperation with neighbouring A Up to 2014 MET costs were p	ANSPs. presented in a separate table	onalization supported by extended for IMWM. For the RP2 they are
	should have parallel process of cooperation with neighbouring A Up to 2014 MET costs were p presented within PANSA's other	ANSPs. presented in a separate table properating costs. As a consec	onalization supported by extended for IMWM. For the RP2 they are quence increase of other operating
	should have parallel process of cooperation with neighbouring A Up to 2014 MET costs were p presented within PANSA's othe costs as compared to the RP	ANSPs. presented in a separate table properating costs. As a consect of results partly from inclusion	for IMWM. For the RP2 they are quence increase of other operating on of some MET costs. For any
	should have parallel process of cooperation with neighbouring A Up to 2014 MET costs were p presented within PANSA's othe costs as compared to the RP	ANSPs. presented in a separate table properating costs. As a consect of results partly from inclusion and the RP1 MET costs should	onalization supported by extended for IMWM. For the RP2 they are quence increase of other operating

Composition of the cost item:	Fixed Assets Investments, Intangible assets, Investment plan
Explanations of the planning assumptions and annual variations in the cost item over RP2:	The rationale for the variations in depreciation is an increase in fixed assets, which value increases as a result of planned investments. This is mainly due to the priority project which is CNS infrastructure project. PANSA adopted the assumption that 85% of planed capex will be realized in the whole RP2 taking into account i.a. historic data. It has to be underlined the PANSA aims to increase the capability of planned and executed investments and to this en introduced internal changes (including personal, organizational and procedural) that should allow to increase the % of investment realization in the RP2 as compared to the RP1 and before.
Description of cost-efficiency improvements planned in RP2:	PANSA's planned tasks have been harmonized with the company's strategy which was aligne with external strategic plans for the whole European ANS system (e.g. ATM Master Plan). Investments are spread over five-year periods in order to reach the strategic milestone including assumed performance measures and to maintain the unchanged high level of safety. Having taken traffic forecasts (en-route and terminal) into consideration, PANSA had to take number of actions with the aim to maintain safety, improve capacity and cost-effectivenes parameters as well as to reach environmental goals.
Main changes compared to RP1 (determined and actual costs):	The new investment cycle cumulating with the commissioning of a new ATM system will lead to higher depreciation costs, with the annual depreciation costs systematically higher that in the preceding years. Moreover, rebuilding of the ATM system will require the purchasing, upgrading or replacing of many devices. The assumption adopted to calculate depreciation that 85% of planned capex will be realized was not adopted in the RP1 and applies only to determine costs for the RP2.
1.4 Cost of capital	
Composition of the cost item:	See Additional Information 1 point e
Explanations of the planning assumptions and annual variations in the cost item over RP2:	See Additional Information 1 point e
Description of cost-efficiency improvements planned in RP2:	See Additional Information 1 point e
Main changes compared to RP1 (determined and actual costs):	See Additional Information 1 point e
1.5 Exceptional items	
Composition of the cost item:	N/a
Explanations of the planning assumptions and annual variations in the cost item over RP2:	N/a
	Determined costs for RP2 (by service)
Explanations of the annual variations in the cost items over RP2:	The cost of services evolve in the same manner as cost by nature. For detail information pleas see items 1.1 – 1.4 Assumptions adopted to calculate the MET costs presented in PANSA's cost base wer included in ER Additional Information – 1 point i).
Main changes compared to	
RP1 (determined and actual costs): Additional comments	

II. MPL WM

ANSP:	<warsaw-modlin></warsaw-modlin>	Designated for:	ATS
	Determined costs for RF	² 2 (by nature)	
1.1 Staff costs		arth gran	9 = -
Composition of the cost item:	For AFIS: wages and salaries, e No costs related to MET service	mployers contributions to social security. s.	N
Explanations of the planning assumptions and annual variations in the cost item over RP2:	During the RP2 5 FTE.		
Description of cost-efficiency improvements planned in RP2:	Keeping cost at the same nom number of operations.	inal level during all planning period. Ser	ve increasing
Main changes compared to RP1 (determined and actual costs):	n/a		

1.2 Other operating costs Content of the cost item:		equipment,	cleaning, I	tricity, heating, water), Training an T & Communication, Cars & Trave
Explanations of the planning assumptions and annual				
variations in the cost item over	Type of cost	AFIS	MET	Explanations
RP2:	Repairs & maintenance costs	114,2	48,5	1/3 of cost of repairs and maintenance of aeronautical control tower ACT (excluding meteo facilities) for AFIS and meteo facilities for MET.
	External services		175,2	External meteorological information services provider.
	Utilities (electricity, heating, water)	3,4		Based on historical data.
	Training & education	50,0		10k PLN for FTE per year.
	Materials & equipment	25,0		5k PLN for FTE per year including personal computers which will not be treated as investments.
	Cleaning	7,6		Based on current agreement with external service provider.
	IT & Communication	63,7		Radiotelephony ground-base and air-ground facilities and broadcast including recording system and AFTN
	Cars & Travel	12,0		2,4k PLN for FTE per year including service and petrol for 1 car used by AFIS.
	Certification	20,0		
	Insurance	12,9	1,7	0,28% from GBV of assets according to current agreement.
	Total	308,9	225,3	g all planning period. Serve increasir
Description of cost-efficiency improvements planned in RP2:	number of operations	ne nominai i	ever during	all planning period. Serve increasing
Main changes compared to RP1 (determined and actual costs): 1.3 Depreciation Composition of the cost item:	Depreciation of asset us	ad to sonio A	NS conice	
- 101 100 A/A				
Explanations of the planning assumptions and annual variations in the cost item over RP2:	control tower with all noperating life of 22,2 yearsing the straight-line defacilities for 8 hours from assets was also adjust depreciation was divide allocated to these service and 30%.	ecessary eq ars (4,5% de preciation m m 24, in cal- ed due to t d between es in the initi	uipment in preciation ethod. Due culation 1/3 he co-fina AFIS and al value of	oks are treated jointly as aeronautic cluded and have the same expected rate per annum). Both are depreciated to the fact that AFIS department used of the cost was taken. The value noting of EU projects. The calculated MET based on the share of asset the object as a whole: accordingly 70 medium of the share of the control of the share of the object as a whole: accordingly 70 medium of the share of the control of the share of the object as a whole: accordingly 70 medium of the share of the control of th
Description of cost-efficiency improvements planned in RP2:	number of operations.	ne nominai i	evel during	g all planning period. Serve increasion
Main changes compared to RP1 (determined and actual costs):	n/a			
1.4 Cost of capital	10 ft ft 1 5 5 5 5	**************************************		
Composition of the cost item:	Costs of capital for ANS			
Explanations of the planning assumptions and annual variations in the cost item over RP2:	As described in Addition	al Information	n 1. e) for N	MPL WM
Description of cost-efficiency improvements planned in RP2:	Increasing number of op	erations with	out any ad	ditional capex.
Main changes compared to RP1 (determined and actual costs):	n/a	1 . 154	gra gra	
1.5 Exceptional items				
Composition of the cost item: Explanations of the planning	n/a n/a		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
assumptions and annual variations in the cost item over RP2:	1			

Explanations of the annual variations in the cost items over RP2:	Excep capita	t cost o I decreas	f capital ses in lin	all othe e with de	r costs crease i	are fixed n the ass	l during set base	planning	period.	The	cost of
Main changes compared to RP1 (determined and actual costs):	n/a	L 0				ar I w		2 2 2			-1-
Additional comments		ng 1	-1	7							- 1

b) Assumptions underlying the calculation of pension costs comprised in the determined costs, including a description on the relevant national pension regulations and pension accounting regulations in place and on which the assumptions are based, as well as information whether changes of these regulations are anticipated.

Assumption used for the purpose of establishing determined cost values in the PP with regard to the pension contribution level is the contribution rate on the level of 9,76% (in accordance with the Act on Social Security System (OJ 2009 No 205, item 1585, as amended). This applies to all entities covered by the PP as all of them are subject to mandatory national pension scheme. Apart from this national obligatory system, PANSA has introduced additional pension scheme which is described in ER Additional Information (for more information see ER Additional Information – 4 point b)). All information for CAA are also described in ER Additional Information – 4 point b). Below for PANSA only information with regard to TNC is provided, but it includes only part of information required in this point due to PANSA's accounting record which does not allow for division between ER and TNC required information.

Entity PANSA

Information for TNC are presented in table below, but they include only part of information required above.

Pension assumptions for the "Pay-as-you-go" pension scheme									
ANSP/Entity: PANSA	2015 D	2016 D	2017 D	2018 D	2019 D				
Total pension costs in respect of "Pay as you go" scheme (in nominal terms in national currency) TNC	3 131 739	3 195 046	3 222 932	3 344 978	3 388 843				
Total pension costs in respect of "Defined contribution" scheme (in national currency) TNC	3 625 937	3 647 148	3 754 685	3 858 714	3 905 210				

c) Interest rate assumptions for loans financing the provision of air navigation services, including relevant information on loans (amounts, duration, etc.) and explanation for the (weighted) average interest on debt used to calculate the cost of capital pre tax rate and the cost of capital comprised in the determined costs,

PANSA and CAA do not plan any loans in the RP2. For MPL WM information on interest on debt is presented in Reporting table 1 and share of debt financing reflects (structure of debt vs. equity) reflects structure of financing of the whole company. Due to marginal value of MPL WM's cost in the total cost base it seems not necessary to provide detailed comments in this regard.

d) If applicable, a description of any significant restructuring planned during the reference period including the level of restructuring costs and a justification for these costs in relation to the net benefits to the airspace users over time;

Not applicable.

e) if applicable, restructuring costs approved from previous reference periods to be recovered

Not applicable.

f) The level/composition of costs incurred following Article 6(2)(a) and (b) of Implementing Regulation (EU) No 391/2013 and included in the determined costs;

STATE/NSA	CAA of the Republic of Poland
	Determined costs for RP2 (by nature)
1.1 Staff costs	
Content of the cost item:	Staff remuneration (including salaries), social security contributions, Labour Fund contributions, Employee Benefit Fund contributions, medical staff assistance
Explanations of the planning assumptions and annual variations in the cost item over RP2:	For the purpose of staff costs forecasting the following elements were taken into account: • most recent CAA TNC costs forecast for 2014 (based on the current total CAA budget and staff allocated to TNC activities) – used as baseline for the RP2 ANS cost planning, • expected evolution of CAA NSA tasks over each year of the RP2, • assumed changes in the total CAA budget resulting from inflationary increase; it was assumed that total CAA budget after 2015 will increase at lower rate than forecasted inflation (2% p.a.), • assumed work efficiency improvements (see next line of the table).
Description of cost-efficiency improvements planned in RP2:	Cost forecast assumes annual efficiency improvement of 2% as regards ANS staff work efficiency. As a consequence, work efficiency shall be improved by 10% over the whole RP2.
Main changes compared to RP1 (determined and actual costs):	n/a
1.2 Other operating costs	
Content of the cost item:	For other operating costs: purchase of materials, equipment, external services, energy, utilities, rental costs, travel expenses, training costs, international organizations contributions, investment expenditures.
Explanations of the planning assumptions and annual variations in the cost item over RP2:	For CAA: see item 1.1. above – the same assumptions were applied to other operating costs. Additionally for changes in the total CAA budget the planning takes into account necessity to perform investments in order to maintain technical and organizational capacity of the CAA tasks execution.
Description of cost-efficiency improvements planned in RP2:	Cost forecast assumes annual efficiency improvement of 2% as regards ANS staff work efficiency. As a consequence, work efficiency shall be improved by 10% over the whole RP2.
Main changes compared to RP1 (determined and actual costs):	Cost forecasting methodology remains as used for the RP1.
1.3 Depreciation	
Content of the cost item:	n/a
Explanations of the planning assumptions and annual variations in the cost item over	n/a

= 0.00 = X	
RP2:	
Description of cost-efficiency improvements planned in RP2:	n/a
Main changes compared to RP1 (determined and actual costs):	n/a
1.4 Cost of capital	
Content of the cost item:	n/a
Explanations of the planning assumptions and annual variations in the cost item over RP2:	n/a
Description of cost-efficiency improvements planned in RP2:	n/a
Main changes compared to RP1 (determined and actual costs):	n/a
1.5 Exceptional items	
Content of the cost item:	n/a
Explanations of the planning assumptions and annual variations in the cost item over RP2:	n/a
	Determined costs for RP2 (by service)
Explanations of the annual variations in the cost items over RP2:	See points 1.1 and 1.2 above. All Supervision costs cover costs of the CAA.
Main changes compared to RP1 (determined and actual costs):	n/a
Additional comments	

Additional comments

Share of CAA ANS costs, and among them ER and TNC share, remains at a similar level over the whole RP2 – see table below:

	2014*	2015	2016	2017	2018	2019
Total CAA ANS costs (ER+TNC)	10 074 635	10 638 303	10 814 305	10 819 786	10 943 264	11 170 883
% change (n/(n-1)		5,59%	1,65%	0,05%	1,14%	2,08%
% share in total CAA budget	18,54%	18,54%	18,53%	18,13%	18,02%	18,11%
CAA TNC costs	3 882 264	4 172 414	4 232 316	4 234 461	4 282 786	4 347 205
% change (n/(n-1)		7,47%	1,44%	0,05%	1,14%	1,50%
% share in total CAA ANS costs	38,54%	39,22%	39,14%	39,14%	39,14%	38,92%

*current forecast 04.2014

Increase in CAA budget is necessary to enable the CAA perform its functions, including those related to ANS. It has to be underlined that salaries at the CAA has been frozen (in nominal terms) since 2008. Despite significant increase in ANS related tasks (including performance scheme introduction) the CAA has not been supported by additional FTEs, including such that could allow increase in the level of ANS-related employment. In 2013 the CAA budget has been further reduced by 7% (in nominal terms). Due to budgetary restrictions over the last 2 years (2013-2014) the CAA was not able to include investment expenditures in its budget forecasts, what resulted in lack of new investments, including replacement investments. As a consequence, significant part of currently used equipment, including computer hardware and software, requires modernization and replacement. Therefore it was necessary to plan additional investment expenditure, part of which should be allocated also to ANS, including TNC.

g) Description of how the amounts resulting from uncontrollable costs factors in RP1 have been taken into account in the planned determined costs for RP2.

Not applicable for this submission.

h) Assumptions for costs exempt from cost-sharing (deemed outside the control of the ANSP, Member State or qualified entities concerned) relating to RP2 costs.

Entity/ies concerned:	PANSA, MPL WM, CAA			7.5
Entity/les concerned.	TANSA, WILL WIVI, CAV		2	7

Costs exempt from cost-sharing in RP2 - Costs attributed to each in the Performance Plan, description and assumptions on which these costs are based.

(i) unforeseen changes in national pensions law, pension accounting law or pension costs resulting from unforeseen financial market conditions See Al-4 b) for the assumptions

As there is not DBO pension scheme in place, only possible changes resulting from national legislation on pensions will be taken into account, that is possible increase or decrease in the percentage contribution (currently 9,76%). The assessment assumes increase of 1 percentage point in the level of pension contribution rate: from 9,76% to 10,76%.

. PANSA

The share of the costs of the pension contributions in the total staff costs (gross remunerations with all applicable social contributions, Labour Fund and bridge pension scheme) used for the calculation of the determined costs (total ER+TNC) is equal to 4,11% in 2015, 4,09% in 2016. 3,98% in 2017, 3,95% in 2018. 3,90% in 2019.

The impact of the change in the pension contribution level would cause changes in the total determined costs of PANSA (ER and TNC) of:

- PLN 2 002 845 in 2015,
- PLN 2 095 260 in 2016,
- PLN 2 100 815 in 2017,
- PLN 2 147 504 in 2018,
- PLN 2 186 799 in 2019.

Consequently, the share in the total staff costs would increase up to 4,51 % in 2015, 4,49 % in 2016. 4,37% in 2017, 4,34 % in 2018. 4,28% in 2019.

The impact of the possible change in this PANSA's unforeseeable cost on the TNC determined costs is presented jointly with the impact of the possible change in the PANSA's costs connected with national taxation law in the AI 4 letter h) point (iv).

II. CAA

There will be no impact of changes in the uncontrollable costs on the CAA determined costs for TNC costs. This is due to the fact that in accordance with rules and practice applicable to budgetary units, such as the CAA, the total budget is a constant maximum that once established cannot change. In case when due to changes in applicable social security regulations these expenditures form the CAA budget would increase, the CAA would be required to limit other expenditures to as not to increase the level of the total budget.

III. MPL WM

Increase of 1 percentage point in the level of pension contribution rate: from 9,76% to 10,76% would result in additional cost of ca. 3 kPLN p.a. annually over the RP2 to the total cost base of MPL WM. As determined costs are calculated excluding VFR, which account for 95% of MPL WM's costs., impact on determined costs would be immaterial.

(ii) significant changes in interest rates on loans, which finance costs arising from the provision of air navigation services Not applicable. See AI-4 c)

(iii) unforeseen new cost items not covered in the Performance Plan, but required by law

(iv) unforeseen changes in national taxation law

I. PANSA

For the purpose of establishing determined cost values in the PP with regard to the property tax the tax at the level of 2% was used (local regulations). For the purpose of the assessment of unforeseen changes in national taxation law the increase of 1 percentage point of the level of property tax rate was assumed

	(from 2% to	3%).				e e e e e e e e e e e e e e e e e e e
	rate would d PL PL PL PL PL The table be	ause the in N 665 699 i N 682 002 i N 699 423 i N 717 044 i N 734 992 i	crease in the c in 2015, in 2016, in 2017, in 2018, in 2019.	determined co	change in the osts (ER and TN e changes of prosts (000 PLN).	C) by:
	000 PLN	2015	2016	2017	2018	2019
	TNC	441	451	451	470	477
	II. Not applicat	MPL WN	1			
	III.	CAA				
	Not applical	ole (see i) a	bove).			
(v) unforeseen changes in costs or revenues stemming from international agreements						