METHODOLOGY OF SERVICES TRADE BAROM ETER

Introduction

This document outlines the methodology used to produce the Services Trade Barometer , a composite indicator of world service s trade and companion to the WTO's Goods Trade Barometer . The overall Services Trade Barometer index is calculated as a weighted average of six component indices representing various aspects of world services trade , including purchasing managers' indices , financi al services transactions, telecommunication services production , air passenger transport , container port throughput and construction activity . Data releases also include a services trade activity index , which provides an approximate measure of the volume of world commercial services trade and serve s as a point of comparison to the Services Trade Barometer .

The Services Trade Barometer is a coincident indicator, with fluctuations that coincide with (rather than anticipate) shifts in actual services activit y, but it can be seen as slightly leading since it will , the Services Trade usually be released ahead of conventional services trade statistics. As such Barometer provides an J 0.006 Tc -0.006 T.dy 0 Td (i)-7 (0 Td ()Tj -015.496n biries (,)\$\figure{4}\$\text{Vepra(i)-7c(nce(c)Te; n02 in Alice 20 4n Tod 4y)}\text{Tingle 587} composite indicator that tracks changes in the volume of world services trade. Component indices may represent developments in a particular sector (e.g. transport) o r they may signal global trends Where underlying data in c (e.g. purchasing managers' indices). omponent indices are reported earlier than services trade statistics, data may be mayelg enbesrenent igng dadex ()0.7 -0.004 Tc90.009

- x An index of revenue passenger kilometres (RPK) from the Internationa I Air Transport Association (IATA), used as a proxy for travel expenditure.
- x An index of container throughput of major international ports from the Institute of Shipping Economics and Logistics (ISL).
- x An index of construction activity based on national statistics from China, France, Germany, Japan and the United States .

Methodology

Chart 1 Example of smoothing and de Panel A Panel B -trending using Singapore port throughput in TEU Panel A Panel B

Source: Singapore port authority.

Panel C

Methodology for the ser vices trade activity index

The WTO compiles statistics on commercial services trade by sector in current US dollar terms, which are published on a quarterly basis. These data reflect changes in US dollar exchange rates and price inflation as well as quantity changes. The services trade activity index approximates world services trade volume by deflating world services trade values in US dollar terms by an exchange rate index for the US dollar and core consumer price inflation for the Unite d States.

Panel D

The first step is data compilation. The trade in commercial services is represented by the average of world exports and imports of commercial services. The deflators are the United States core CPI (all items less food and energy) and the broad nominal effective exchange rate (NEER) for the United States. The trade in commercial services data is in quarterly terms, while the core CPI and NEER data are converted to quarterly averages from monthly data.

Data	Unit	Source
Imports a nd exports of commercial services	Million US dollar	WTO
United States Consumer Price Index for All	Base period 1982 -	Federal Reserve Bank of St. Louis
Urban Consumers: All Items Less Food and	1984=100	
Energy (Core CPI)		
United State Nominal Effective Exch ange	Base period 2010 = 100	Bank of International Settlement
Rate: Broad indices	•	

Data sources

Underlying data for the Services Trade Barometer and its component indices is obtained from a variety of sources . All the data used are reported on a monthly basis.

Sector	Indicator	Unit	Source
Commercial services	Headline Purchasing Managers Index	Number from 0 to 100/	IHS - Markit
	(PMI) - services	50 means no change	
Financial Services	SWIFTNet FIN traffic	Average daily FIN	SWIFT
		messages	
ICT Services	Index of services production for telecommunication sector		